

tttcatagga cttagttcca gcaaagcaaa ggttgacatt gcaccaaaca atagcgtcta 240  
tacttcattc ttatggcttg gagaagccta tgcaacatga caagccagat gacatgtaga 300  
tgagaagggt ctgcatcaag agaaacccaaa gcaaaatctt tgcacatga gagcaccgat 360  
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<210> 35794  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-A12

<400> 35794

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ctcgcccaaa cttcgccgcc gcgtaccctt cggcttctag tgatgtctgg tggtaacgcg 180  
tgggcgcccgc tcccttcgca cggatttgaa tccgactccg gcggcatggg g 231

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<211> 455  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-A2

<400> 35795

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caaggacgtg cagggcctca gctcctgcga gtacacgatg gagcgcgggg tgggtgcacgc 180  
gtgccacgcc ggcggcgtgg tgcacttctt ggaaggctgg ggccaccacg aggtgggcgc 240  
catcgacgtc gaccggatcg acgtcgtctg gaaggcggcg ctcaagcacg ggctggcgcc 300  
ggtgtgatca tatcgatcg tcgagccga ccgcgcgcgc ggtttgtttt gcagcggcta 360  
cctacctagc tgcatatgct tgccaggccg gtgtccagcc gtcgcgggtt tgtgtgcatg 420  
catgcaacag cccagcagac cacgggctac cgtgc 455

<210> 35796  
 <211> 450  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-056-Q1-K1-A3

<400> 35796

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 gatggcaaag atttgcgctt agggaaggag gaagaatggt cggtgctgga gtcgtctcca 180  
 aagttcttag ctgatcagtt tctactttct tctccgtagt ctggttgcaa ctgttgatgg 240  
 ttagcacatt ctttatcttc aattattgga agaaacattt ttgcgccaat tacatgaaag 300  
 tggttgcagt ttttaagggtc tgttcaatcc ctctccaaga tattgtaagt gtatgaaatc 360  
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<210> 35797  
 <211> 305  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-A4

<400> 35797

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 ctagtgttac agatggcaaa gatttcccct taatgaatga ggaataatag tccgtgctct 180  
 actcgtcttc aaagttctta gctgatcaac ttctactttc ttcttcgtag tcatgttgca 240  
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 ttaca 305

<210> 35798  
 <211> 318  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3069-056-Q1-K1-A5

<400> 35798

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catgtgccta catcaacatc ctcaacggat atacaactgg gtgcttctac gtcgatggga 180  
gcagcacgac attttaacga ttacgaagac atattgcaaa aatggcacat attaacctaa 240  
ctactggatt cacatgaagg atgcagtgat ccttcttaaa ctggactgaa ttgcacaata 300  
tgccctgtga aatctaaa 318

<210> 35799

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-A6

<400> 35799

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gtcgatcgcc aataatggag tttccgtacc accaccacta ccacagccat cgccgatact 120  
actacgaata cgaccgcata ggcccgctc ccccggtcta ctgcggctac ggccagccac 180  
cgacacccga cccgtacggt cgcgcgcccg ttgacccga tccgtacggt cgacctccga 240  
cccagtccgt gtacatgagg gccgg 265

<210> 35800

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-A7

<400> 35800

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gtgttcatcg cggcgacggt gtgtgccttc tacgcgctgt gcctccgga ccagctgagc 120  
tactccttca ctggcggcga ggtcctggcg cgcgccgtgt ccgacctctg gccgtcctc 180  
tgcgacacac tcgtcctcaa cggcctacat gcagtcctat ccgacgtcct catgccctac 240

tcatggcag

249

<210> 35801

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-H11

<400> 35801

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gggagagatg tcgggcggca ggaggagggg gcttgtgtgg agcctccccg tggcgaggtc 120

ggatgcgctc ggaaaactgg gccctgcctt cggcatcggc gccggctgcg gcgtgggtct 180

tggcttcggc ctcacgag gtgcaggcat cggagctgga ttccctgggt tacaattggg 240

gtttggagct ggagctggat gtggaatatg aataagtttt ggttacggct ttggaaa 297

<210> 35802

<211> 133

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-F5

<400> 35802

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gttttgcgtc cgaaggttat gttttgaagt tcatgctacc ttttaaagta cggattacct 120

tgtgcctatg ttc 133

<210> 35803

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-055-Q1-K1-F6

<400> 35803

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ggagatcaag cttatgagac tcctaagaca tccagatatc gttgagagca cacatattat 120

ggtgcctaca tcaagacggg aattcaaaga tatttatggt gttgatgaac ttatggagcc 180  
 tgatcttgac cacgttatca tggctaata tgacctgaca ctggaacatt atcagttctc 240  
 tctgtaccaa ctgatccgtg ctgtgaaata catgcacaca gctaacgtat atcaccggga 300  
 cctgaagcca aagaatatat tagcaaattc taactgcaaa ctgaaaattt gcgattttgg 360  
 actagcacga gttgcattca atgataccgc cacaaccatt ttctcgacag attatgttgc 420  
 aacangatgg tac 433

<210> 35804  
 <211> 432  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-F7

<400> 35804  
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 gggggcggtca agtaccctaaa gaaggatgac cgcaaggact ccgccaagaa gactgcgaag 120  
 aagtcgcgcg tcaagtgttt catcaagctc gtcaacttca ctcacctcat gccacccgc 180  
 tacaccctcg acgtcgattt caaggatgtc gccaccggtg ggcccgacgc actctctacc 240  
 cacgacaaga aggtcgccgc ctgcaagacg gccaaagcgc gccttgagga gaggttcaag 300  
 accggcaaga acaggtggtt ctttaccgaag ctccgcttct agatgtctcg ccttccgaat 360  
 agtcctgctt tagctgtcga tttgtttgat cgggcacact ccattctctgt tttcgtttac 420  
 catgaatatt tc 432

<210> 35805  
 <211> 455  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-055-Q1-K1-F8

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 ggatacgtca ttctacattt tgaaatataa tagggatgta gtttcatctc atttagacgg 120  
 aggggggttca gctgctgagg aagggtgtgga agatgccttt gaactgcttc atgagatcaa 180

tgaacgtgtc cggactgggc tatgggttgg tgattgtttt atctacaaca attcttcgtg 240  
gcggtttaat tactgcgtan gaagagaggt tacaacctta tttcacttgg atcggccaat 300  
gtatttacta agatatcttg caaaccaaag cegtgtctat cttattgata agcaatttaa 360  
tgttgtgggg tatactttac tccttagttt gatcgagtat aaaacacttg taatgcgtgg 420  
ggattttgat cgtgcaaag atgttttata atcta 455

<210> 35806

<211> 348

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-055-Q1-K1-F9

<400> 35806

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gagactgttc tcatgggaag atatattcaa gtcattggacc atgactcctt gacagntgtc 120  
aaacttaaga tgacactgtg agctgatgac aatagtata ccagccacta caacgttgaa 180  
actaccataa aacctcaatg cctgcatcaa gtttaattctg tggcattctt tcaaactcca 240  
catcttactg catgaaagca tccaaagctg gtgtgtctat gccgctatat gccacaatca 300  
tgtgagacgg aaagaacaag acaaagcaag gaacagattg aaacaaat 348

<210> 35807

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-G1

<400> 35807

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gcgagatgtg tcgttcgttg tatcatgtat ggggtgtttat ggctttcggg ctactagatt 120  
tttgtgagaa aaaaaaagct taataaaaca caaaaaattc actcacctaa taccaccccg 180  
atacaccta gacgttaaaa tactatgatg tcatcaccgg agggcccaaa aacactctct 240  
accacgaca agaatgtcga cgctgcacg acggccaaag cgcgccttga tgagatgttc 300

aatg

304

<210> 35808  
<211> 416  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-055-Q1-K1-G10  
  
<400> 35808

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agtttgttcg tgctgagggg gccatcatgg ctctgaattg cagcgggatg attttgggaa 120  
ctctgcctgt caggggtgagt ccttctaaga ctccggtgaa gccacgtgta aatcgaatgg 180  
gatctaactg actctgccta agctcaaccg gaaggcatgg ccataagctg aaggcttccg 240  
tggtcctgtg catcatgatg catttgctta cattcttaca aacactctgt ttgtaccctt 300  
ttgcaaacct gttngnaggg aacttggttag gtcaggccct tttgccttgc attttaaaca 360  
tgatggaacc attgagaatg actattccgc aattaaccat caaaagtact tctgtc 416

<210> 35809  
<211> 262  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-055-Q1-K1-G11  
  
<400> 35809

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aaagtctgta cagcgggat ggacttcaat cggggagcat cctaccagac aacttatcac 120  
ccgtctagta gtgtttatgg tgaaggcatt cagaggccag ttttggcaag gggtaatggc 180  
ccaagtgtgc ctgtgtccag ccgttattcc tttaatggcc caccagcata ttgatggatt 240  
gcctagatgc aagcactcaa at 262

<210> 35810  
<211> 419  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations

<223> Clone ID: LIB3069-055-Q1-K1-G12

<400> 35810

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nnggagcctgt cttagcttat gcctnnagta caggtnngnng agtggaagtg tgggtgggtggg 120  
gatgtgtcaa accccaaatc agaaccgaan aaaaaagaaa agcagcagct agaagaaaga 180  
agaacaccca ctctaccagc agcaagcagg caatcaagca accagcannt aacgaaatgt 240  
cgatccaagt acctgcgacc agcacaangg accctgcgag cggcagcgtc tgtaccgtcg 300  
cttctgcgcc gccttgggtgg gcgtcatcgt gctcgtcctc ctcacgtgc tcacgtctcg 360  
gctcgtcctc cgccccacca agcctcgtt cttcctcaac gacgtgagca tcgtgtgca 419

<210> 35811

<211> 183

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-G2

<400> 35811

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ctgtgggact aaaaaatta actagaagac agcagagaca attgtagcac tagcatacca 120  
acgacagatt gcataatatc ataagtggta agaccacag aacagaccg atgtattctc 180  
tct 183

<210> 35812

<211> 387

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-055-Q1-K1-G3

<400> 35812

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gctgtgggac gacaccgtcg caggcccgcg cccggacacc gggctcggcc gcctccgcaa 120  
gcagcctgtg cgtcccgccg ccgtcaagat cagtgatccg gccggggacg ctgcggcggt 180  
cgtgccgccc tcgccggctt cgggtagcga ggagacgccg gtgaagggtga cgcgcagcat 240

catgatcaag cgccccgcgg ggtacccgctc gtcgccgagg agcgcggcaa gcacgccgctc 300  
ggcctcgcca ctggggacta cngccgccat ctcgccgttt gccggcgccg gtggtcgctt 360  
cagaaggaaa tcatcgtccg acgcata 387

<210> 35813  
<211> 112  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-055-Q1-K1-G4  
<400> 35813

aaagacggcc gaccgcggag aaaagtttag tgcacttcta gacacgactt gtgagctaca 60  
tagtcaggcc catgagttca agaaacaggg ggtgtagatt cgtcgggaaga ca 112

<210> 35814  
<211> 456  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-055-Q1-K1-G6  
<400> 35814

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gttaaacac atagaaaaga ctttggaccg cggagaaaag ttgagtgaac tccaagacaa 120  
gacttctgat ctacatagtc aggcccagga gttcaagaaa caggggggtga agattcgtcg 180  
gaagacatgg ctgcagaacg tgaaaattaa gctgggtgatt cttggaatcc ttttgctcct 240  
tgtgatcata gtctgggtat ctggttgtca aggctttgac tgcaccaagc atgaaacata 300  
gtagtaataa gaatgggtga acacgactgt ggcagagctg cgatggatgt gagtttgtgc 360  
tggtgaagtc aagtgtgtac ccacatatgc tttggctctc aagttcgatt ccaccagaca 420  
agtatcacgg tacaaatgta agtccgagct ggtctt 456

<210> 35815  
<211> 452  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-055-Q1-K1-G7

<400> 35815

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agacatctgg cacagcaagg ctagcaaccc cttcgттаac ttgaagaagg aatacaaggg 120

catcttctgg caggaggaca tcatccccctt cttccagaac gtgaccatcc ccaaggactg 180

cgacaccgtc caaaagtgtc acatctacct ctctggacaa gtgaaggaga agctggggcac 240

gattgacccc tactttgtca agctcggtga cgccatggtc acctggatcg aggctggga 300

tgagctgaac ccgtcgaccc ctgccgccgc aaatggcaag gccaagtaga tgtgccatca 360

cttcggcact ggagtgaaaa agaaagtatg attgggtcct gcctaggccc catagatata 420

gctctttttt gagaaggaag agagattaat tc 452

<210> 35816

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-G8

<400> 35816

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gacctcaaaa ccgcaccagc catggacggg ccgcgttgga cggaagaggt ggacgacctg 120

gtcgacgccg gcgacgtcga cggcgccatc gtcctccttg agtccgtcgt ctacgatttg 180

tcaacctccg ctgtcccccc tgccactgac cttcgactcg ccacggcgct cggcgacctc 240

gcggaacctgc acgccgtccg gtgagacacc ctccgagccg acgagctccg tgccccgcgc 300

atccgccttc ggtcccgcgc cacggtcctt gggactggga ccctagggtt tggttcccc 360

cctcgtagtc cttggtgctc ttggaaatcg ttggtggaag cccttcgctc aggctcatg 420

tttcaactgc ttagttattg ctctattggg ctattatta 459

<210> 35817

<211> 259

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-055-Q1-K1-G9



<400> 35817

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cgccagctgt acattcctct gtgcctagtt tccttgnana gatgtatctg gttaataact 120

gataaattcg tcattgattt gatgtagtga attttcccca taggaacgct ccttcttctg 180

tttcatgtaa atgcaaaaca attccaatct tgaattcaga aatgggttac aggcttggtg 240

caaaaaacaa aaaccctaa 259

<210> 35818

<211> 350

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-055-Q1-K1-H10

<400> 35818

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gggacgggca taatagatta tattgatgtc acanatttag ttgatgtcga tgtgaaagca 120

ctcaacaagg cagagcctag aaaagtcagc atttacaatg ttggaacagg aagaggctgc 180

tcggttaatg agttcgtcga tgcctgcaag aaggcaactg gggttaacat caaaattgag 240

tacctcagca gaaagccagg agattatgca gaagtatata gcgacccaac aaaaatcaac 300

aaggagctca actggacagc tcgatatact gatctttaag agagtctgtc 350

<210> 35819

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-F3

<400> 35819

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aggccttgcc aagtacccaa agatggtgat ccgcacggac tccgccaaga cgactgcgaa 120

gaactcgcgc gtcaagtgtc tcatcaagct cgtcaacttc actcacctca tgcccacccg 180

ctacaccctc gacctcgatt tcaaggatgt cgtcaccggt gggcccgaca cactctctac 240

ccacgacaag aacggcggcg cctgcaagac ggtcaaagcg cgccttgagg agaggttcaa 300

gaccggcaag aacaggtggt tctttaccaa gctccgcttt tagatgctcg gtcttccgaa 360  
tagtcctgct ttaactgtcg atttgctgga tcggacacac ttcattctctg atttccgatt 420  
accatgaata tt 432

<210> 35820

<211> 141

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-D4

<400> 35820

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gcggccttct agtgctgcgg gggatcccag gtcaaggaca tgggtggaat agccgcctgc 120  
tgcttctgat agcagcaaag c 141

<210> 35821

<211> 450

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-055-Q1-K1-D5

<400> 35821

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gtaacagaat tgcagtgtgt cctagtgttg ttatcaaggt acaaacagag aaaccatatg 120  
aaatagatac aaacaaggta aactcaaagtg tgatggagac aactgaagaa catgatccat 180  
ccagtgcacc cacacaaaag gttatccctg attttaacat ggcagacttg aacacaatgg 240  
atgaatctaa acttcgcaca atcctcgagc atacatcatc attggtgcaa gcacttgctg 300  
aagtaaaaaa tggggagtc aacaactgtg aacaggctaa gtcaagcttt gaagataaga 360  
aagtaaacad ggcatactct gacgngcca ccaaactctga gtgcgattag cagtagcttg 420  
caagatattg atgtttatac gctaaactgg 450

<210> 35822

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-D6

<400> 35822

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gtcactgagc tgtggacgtg aattgcgac atccgttctc gctttctggg gctcggctgc 120  
tgtggccatg gcgccggcgc cgtcgccgta cgcgcgggtg atggaggaca tggtaagggg 180  
ccgggagtag gccacgcagc tgaaggcgct gctccgggag tgcgccgagg ccagccgcct 240  
cgtggaccgg atcttgacag ccatatccct caccatccag acggcctctc gggcgtggcg 300  
cacttggggg acgacgacac gttcgatctg gaagacattg tggtcggctc catcacccgc 360  
ggcatgtatg ctgctgagta ctgacggccg gacgacgact gctcgacctg ctgtgtgttg 420  
gaggagagta gga 433

<210> 35823

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-D7

<400> 35823

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gcgctgctcg ccggggctgc cggcgccggc gcgcagcagg gcgtgtggag catcatcacc 120  
cggcccatgt tccagagcat gctgagccac cgcggcgaca gcgggtgcca gggcgcttc 180  
tacacctag acgccttcat cgaggccgcc agctagtctc ccggcttcgg caccaccggc 240  
gacgagcaga cgcgcaggcg ggagctcgcc gacttcttcg gccagacgtc ccacgaaacc 300  
accggtggat gggcgactgc tccggatgga ccgttcgcct ggggatactg ccgggtgaag 360  
gaacagaaac agacggaccc accctactat ggacgaggac ccataca 407

<210> 35824

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-D8

<400> 35824

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gcgatgtctg ggcgcggaag gggcggaag ggtctgggca agggcggcgc gaagcgccac 120

cggaagggtgc tccgcgacaa catccagggc atcaccaagc cgcgatccg gaggctggct 180

aggaggggtg gcgtgaagcg catctcgggg ctcatctacg aggagacccg cggcgtgctc 240

aagatctttc tcgagaacgt catccgagac gccgtcacct acaccgagca cgcgcgccgc 300

aagaccgtga ccgccatgga cgctgtctac gcgctcaagc gccaaaggacg caccctctac 360

ggcttcggag gctaggctag gcgcctcttc atagtcgggg actggttagg ggacatgtct 420

ctgtgtg 427

<210> 35825

<211> 148

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-055-Q1-K1-D9

<400> 35825

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atctgccttg cggatttaca acattttgca tccttcccaa cctgtctctt aataatacaa 120

cacttaatac ctatcacaac caattctt 148

<210> 35826

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-E1

<400> 35826

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gaagctgttg cagtggctta tatgtcattg acctgtcaaa tgtttggttg agttaacttg 120

caaatggaat tgtgggatcc tacattggct aaaggaatta agattttctt agcaacatca 180

actccactct ttggacacgt agctactaat tacaccgtga actaccagaa ggccgctatt 240

cagttgagct gcagtggcaa tggatatgga atgcatgcag gcccttcgcc accacgcaga 300

gcagaagcca gcaaatttga tgatgatggt aatccacgtt acactcatgg atatcaaggg 360  
ggtggt 366

<210> 35827  
<211> 157  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-055-Q1-K1-E10

<400> 35827

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tattttatttg tgaatagaac gcacatttgt tactact 157

<210> 35828  
<211> 313  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-E11

<400> 35828

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gcggcctgac gctctgacaa acttccatct cggatgtttc acatgccttg tcgtcagatt 120  
tttctcaaac tcaatcacat tctgcatata ttgtataaca actaacagat ggctctggcc 180  
acagatacac agacacatgg tgatcatggcg gtaccacagg tcttcctggt gaaaacgcac 240  
atatgcatgc caaccgttct ggtaccccat gtgatccaaa ggaaaccaca atatctgcta 300  
ccgtgcctga tgg 313

<210> 35829  
<211> 299  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-E12

<400> 35829

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 tcctcgctgc gtccgggagc tgcgcccagt tcaccgcagt gctagctggt gatcccaaaa 180  
 catccaacga tgataagaag gctgaagctc agccaaaggg ccataccggc aaaacagttt 240  
 tgttcgtcct cctaggagtg ggggctgtca ttctgttgtc atttgttatt atcaagtat 299

<210> 35830  
 <211> 351  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-E3

<400> 35830

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 tgcagtgtc taagccagaa ccctatatgg tggcttatgg aagggcctcg gacaattagt 180  
 catgatttct caaagtctta ttgtgaggct aacctccaat tggtcattca caattcagaa 240  
 gtcataaga ttttggtgag agtgggtcact tttgatgtaa ttccagagaa aactgttcat 300  
 cctcatgact caaccagtgc tcaaggtgga tggatatgatg tatcactgga a 351

<210> 35831  
 <211> 195  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-E4

<400> 35831

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 taccagtcta cccctctatg ccagatccct ttatggcccc aaatctattg atcatcacca 180  
 aacagacatg agttt 195

<210> 35832  
 <211> 430  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-E5

<400> 35832

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ggcccatcct ttgagctcga aatatacttt caggatgatt ggttggaggt tttggggtgt 120  
ggagtcaccg agcaggaaat tttgaaaaga aatggcagga gggaccatgt ggcttgggcc 180  
tttgatttgg gcttggagcg ccttgcaatg gtcctttttg acattccaga tattcgactc 240  
ttctggctga atgataaacg gttcacgtcc cagttctcag aaggcaagct tgggtgtcaag 300  
ttcaagccat tttcaaagtt tcctccttgt tacaaggata tgagtttctg gatcaatgat 360  
gcatttacag agaacaactt atgtgaggtt gtcagaggaa ttgctggtga tcttggtgag 420  
gaggtaaaac 430

<210> 35833

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-E6

<400> 35833

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gatatgatac ccaggcccca tgcaatgcag cagaaccggg gaaaacaagc cgtcggttct 120  
actcccgga ggtgtcgaca aagggtctct acatcaccta caacataacg caggtttcat 180  
atgagctgaa tgtcttgagt actcggggcc ctaggcggat gaactgtgat atgcactaca 240  
ttctacctc gtgccttgac gctggaggca ctgttcccag ccagctggac agcatgcttg 300  
ctcgctctac tgatgagtca tttggcagca tttccttggt caagtcattt ggagcggacc 360  
ggcctatgcg tttcaccagc tcaagattct tcgacatctc aatgagcagc atccgcatga 420  
ttggagacac 430

<210> 35834

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-E8

<400> 35834

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ggagagcttt gggaaggatt tatgccctgg agtcaccaa acactcgcca tcgaagcgga 120  
atgttcttag tgacctacgg agtacgaagt gtctcgggtg gcatctaggt tccactgcaa 180  
gtatgcccgt caaaattcta aaactgtagt gcttgttgca cggcaatgct attgtaacct 240  
ggatttgaat gtatccatct gagctagggt atgtttcagg agctttctta aactaacgtt 300  
gttgctgagc agcatgaaat ctgattagcg caaaaaaaaa aaataataaa aaaaataaaa 360  
tttatatgta ttttaatata aaaa 384

<210> 35835

<211> 338

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-055-Q1-K1-F10

<400> 35835

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ataatggggc ggcgcgtcct cctcctccca gccgcagctg gtcgcggcgg cggcggtcct 120  
ggcagcggcg ctgctgctgc tggcggcggn ggccgggacg gcgtcngcgg cggtagagctg 180  
cggcgagggtg acgtcgtcgg tggcgccgtg cctcgggtac gcgatgggca gcgcggcgctc 240  
gccctccgcg gcgtgctgca gcgngtgcg ctcgctcaac agccgcgcgt cgtcggcggc 300  
ggaccggcag gccacctgca actgcctcaa gagcatga 338

<210> 35836

<211> 301

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-055-Q1-K1-F12

<400> 35836

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cgagcaggta catcaagggg gagctcgacg agctcgagcg cgaggacttc ttcaggctca 120  
 agaagatcca gggctacaag aaaagggaga tcgagcgcca gatggccgcc gccaggctat 180  
 ttgcgaggga acagcttgcc gaggatctcg cgcttaagag gggatatctcc gtgggggctg 240  
 cggcaaacct gctggttgct ggtggngaga aggacgacga catcatcttc tgaccactcc 300  
 t 301

<210> 35837

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-F2

<400> 35837

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 gcgactggcc gagcagccca gctagcaagc cagccagctg tcgtaaggac cgtgggatcg 120  
 tgcggccagg agggagctga gagatagacc cgcacacgca agttgtgaga gagggagaga 180  
 aggagctgaa gctgaacggc ggcggcgggc tgaacagact ctccgagatc ttcggcgaga 240  
 ttagtctggg ctgatgctca tccggttggc tcctccctt ctcagctcct taaaggcatg 300  
 gcgcgtgtac cagagtcggc tcctctcggc ttttctttct ccagtttgct gttccagtca 360  
 caagttgatc gatccgttcg gtccctgtgt 390

<210> 35838

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-D3

<400> 35838

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 agtgcccttt tgttctgttg ggtaacaaag ttgatgtaga tggtaggcaac agccgcgtgg 120  
 tatctgagaa aaaggcaaag gcatggtgtg cttccaaagg gaacatcccg tactttgaga 180  
 cgtctgctaa ggacggaacg aacgtggaag acgccttcca gtgtatcgtg aagaacgctc 240  
 tgaagaatga gccagaggaa gaactgtatg tgccagatac cgtggacgtg gtgggtggca 300

accggggccca gagatcatct ggttgctggtt aaggcacgag gcatcacgag gcgttgtgat 360  
catcatcgtc gggatatgcag tgaccaaaaca atacc 395

<210> 35839  
<211> 131  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-055-Q1-K1-B3  
  
<400> 35839

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gcgcaaata ga ctttgttcaa gaactttcttc tctcacagga aataacatga gtgcagtccg 120  
tgctttttatc t 131

<210> 35840  
<211> 440  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-055-Q1-K1-B4  
  
<400> 35840

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ccgaggggcgc gactgcgag ggcctggcgt tcgacgtgca cctgcgggtg cggaacgcgg 120  
gcgagaggtc cggcggggcac acggtgttcc tgttctcgtc gccgccggcg gtgcacaacg 180  
cgccggcgaa gcacctgctg ggcttcgaga aggtgtctct ggagcccggg caggcggggcg 240  
tggtggcggt caaggtggac gtgtgcaagg acctcagcgt cgtggacgag ctgggcaaca 300  
ggaaggtggc gctcggcagc cacacgctgc acgtcgggga cctcaagcac acgctcaact 360  
tgggagtctg atggccgaaa ggggaatggc taccaagtac caacgtgaaa gcagttggaa 420  
tttggagggc tggattggtc 440

<210> 35841  
<211> 262  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-055-Q1-K1-B5

<400> 35841

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catcgcttaa tgcaaaagtt ctccaagatg ttcttgctgg ccaaattgggt tcgattgcag 180

atgcccttgt tctaaatgcc gtggcatccc tacttgtcat tggtaaagtg aaaaattaca 240

tgactgtggt gcttttagcac at 262

<210> 35842

<211> 158

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-B6

<400> 35842

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gaaccatctt tgtagcattt cccttttttt atcctcgcta acaaattgaa aaatacggat 120

cttgtgatgc tgtcttagtt atttgatctg gtgagctg 158

<210> 35843

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-B7

<400> 35843

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gatcatagct atgactgcat tatacagttg tgctgttttc aagttcaggg cgagaagcta 120

cagggataaa tccttgaat cagactaatg attagctgtt ctgatttaat ggacatttgt 180

aagaattcag aaaggagggg tatcttggcc tattctctcg ttgtacaaca tcgtactcac 240

atgtttccag accatgcaat ccctgcaagg gcctttacac attaaaaaaaa agaataaaaa 300

aacctgacg ttaccaacc ttaaaaagcc tt 332

<210> 35844

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-B8

<400> 35844

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gccgtgtgga tgctgcacct gctagccttc gcgctggagc cgccgccag ccacttcgat 180  
gccggacgcg gtgcggagtt ccaccaggag tacatggaga gcgtgaccgg cgcgccaccg 240  
cacggcggcg cgggcctggt cgtcgggttc gccgtcgcgc ccgggttccg gctggggaac 300  
ggcgccgtcg tgcgcgcccg ggtctacctg gtgccgcgtg gtggccgacc gtgacagacc 360  
catgcatggc gtgacagacc gcgtggtagc gttgcatagc gccgtgggcc acggatcacc 420  
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<210> 35845

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-B9

<400> 35845

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tgctgtatac tttggtgaac aagtccaag aacaatccgt gtgaccatc agaatgatat 180  
tgtgccgcac ttaccaccgt attattatta cctaggtgaa tggacatacc accactttgc 240  
tagagaggta tggcttcatg agagcataga tggaaatgta gttaccagaa acgagacggt 300  
atgtgatgat tctggtgaag acccgacctg tagcaggtcg gtctatggga tgagcgtagc 360  
agatcatctt gagtactatg gtgtcacact acatgcttga tcagggg 407

<210> 35846

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-055-Q1-K1-C11

<400> 35846

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tggaggcgaa tacagattgc cgcgtgctaa taaaaagtcg tggcancata aaagatccag 120  
cacgggagga aatgatgcga gggaagccag gatatgagca tctgaatgaa cctctccata 180  
tattggttga ggcagagcta cctgttgaca tcattgatgc tcggctgatg caagcccgcg 240  
agatccttca agatctgcta aagcctgtgg atgaatccca ggacttcttc aagaagcagc 300  
agctccggga gctcgcgatg cttaatggca ccctgcgtga ggaaaggatg cagaggttcg 360  
gttcagcgtc cccttttcac aacagccttt gaatgaagag agccaagaca gggggtgatg 420

<210> 35847

<211> 257

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-055-Q1-K1-C12

<400> 35847

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aagggtctgc gatttctctg agaggtctct gtgctcgcct tgggtcctct gacaaacata 180  
gcattggcca tcaagaagga tccctcattc gtgaaaaacg ttaagaagat cgttgtgctg 240  
ggtggagcgt tctttgc 257

<210> 35848

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-C3

<400> 35848

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cttctccagt gaagccaact gagccaaaaa tctccacata gcgggttgat gaatctgcca 180

caccagtacc tgccactgat tatacgttca cataacaacc agaacaagct cggacaatct 240  
cattcgaaag tgaggcacgt atcgacttgg accatgttct atct 284

<210> 35849  
<211> 344  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-C4

<400> 35849

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tctactccag agcacccaac atagccaaaa acctccacat tgcgaattga tgaaacgccc 180  
acaccagtac ctgccactga taatacgtcc acttaacagc cagaccacgc tcggataatc 240  
tcatccgaga gtaaggcaca tatctactaa gaccaccgta catctgccgc tgatacaggc 300  
gctcaattag ctcatcgagc atcctgcgga cccaataccg ttca 344

<210> 35850  
<211> 441  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-C5

<400> 35850

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ccagcaccat gggcggcgcc ctgctcctca cgctgtctct cgcgggccgtg cccctctctt 180  
tgggcggcgg cggcggcgcg caccggggct actccgacga cgacgagagc gcgtgcacgg 240  
tggacgcggg cgcgagctg ctgcggcgga tggaggagcg cggggccggc gggcgcatca 300  
tcatcgacat cagcacgcg gtcgtgccgg acctgccggc gttcgccacg gtggcggtcg 360  
cggtgcccat gctgcgcctc aaggagtcca tggcggacgg gtccgagtac aacctgtcgg 420  
agctgcggat ggagtgcac a 441

<210> 35851

<211> 420  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-C6

<400> 35851

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gatctcagat ttcaaaagta gtcagtgtg gatgaagaat ggtctcgcaa ttcaagactc 180  
gatggtacga aggaaaacga tgcgcttgga ttccgtgaag gaacgatttc tttgtcagca 240  
cctcagaatt tggccacttg aaagaatctg atgcttgaag tttcctgggt ctgtgtacac 300  
aagtcggctc aatgtcagaa ttgagccgct tgaaatatat ttagttatat tctatgcgga 360  
gagtaggtct tggaaacagc cttttccaca ataatgtaca gaaattggca taatacgcga 420

<210> 35852  
<211> 455  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-C8

<400> 35852

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tggtcacgag aagccgggggt gagatcaaac gcctgaacag cccgaagatc accagctcag 180  
gtggcacgcc tgtggcagaa ctgaaaggca tccgcagccc atccatttct gaaaaagcat 240  
acagccctcg tctcactgag ctccagcatg agcgcagccc tctgggaggg agaagcaggc 300  
ctaggacgcc atccaagttg ggtgaaggct cggcaccaaa gtgaataaag caatgatgca 360  
ttgcttaagc tatgcaacta ctgggttact ggccatcaat tatataagtg attttaaagt 420  
ggtttcagtg ttagtatcca agatgtcctc tgatg 455

<210> 35853  
<211> 157  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-055-Q1-K1-C9

<400> 35853

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 aactccatgc tcgacgctat cgagaacatg aacagcaagg aactcgactg cctaaacatc 120  
 accgttaacc aggcccagtc ccgtggcggt ggcaata 157

<210> 35854  
 <211> 291  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-D1

<400> 35854

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 ggcattctga agccggacat caccggggcc ggaatgaaca tcctggcggc gtgggcgccc 180  
 agcgagatgc acccgagtt cgcgacgac gtgagcctgc cttcttcat ggagtcggg 240  
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<223> unsure at all n locations  
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 aagcggagtt tcttggaag cccctgtggc ttttgggggt ccctcgagcc cccggatgga 180  
 gaaaagtacc cgtcaagggt caaagggtccc cgaggctnaa gcggagccga cccgnngctg 240  
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<210> 35856



<211> 131  
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 aagacaacga gcaggcagag ctggaaggggt ggcacctgng aagtgcctta ggatctatac 180  
 agaggaatat tatcttaatg aaatgcagtc agaaggaatt ccagaaatgc aaaggtccaa 240  
 cctggtctcc tgcataatac agttaaagc cctaggcata gacaacatcc tngccttga 300  
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 <213> Zea mays  
  
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ggtgccgtcg gcgatgaggc acgggcggtg gttgactaat tactcggcta gctaattagt 240  
acaatgatga cgaagcatac gatggagctg cccatcagat tatttggagc tctattatta 300  
atctctgatt aattggacag agacaggaag aattgattgt aacatatgca tatacataca 360  
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<211> 375  
<212> DNA  
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<223> Clone ID: LIB3069-054-Q1-K1-H4

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ctctcaaatc agctgcaggg aataagaggg ctgcaccgca tgacgacgac cagaagtctg 180  
aggtggaccc tgaacgccgt ataatcgtag gcgaagagcg ccagaagtgc ataacgaagc 240  
cggccccctc tgacgacgag gaggtgatg gaaagagctc tgtcacaagc caatccatca 300  
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<210> 35860  
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<212> DNA  
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<223> Clone ID: LIB3069-054-Q1-K1-H5

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ggggcccgcc ttctgtgcca cccagcagc ctggctatgg ttatatgcag cctggggctt 180  
atcctggggc accgccacag tatggtgcac ctcagcaacc ttatggtagc tccccccaa 240  
catctgggtg ttatcagact ggatgggatc agtctcaaaa ccagcaatct catacaactc 300

ccccctgggtac tgggtatgat tattatagtc agcagcagca acctcagcaa caatctgccc 360  
ctggggacagc tgcttctact gatgccacta gctacaatta tggtcagcct tcgacgtatg 420  
cttcacaggg atatgatt 438

<210> 35861

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-H6

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cgccgcgctc agggacggca ccggcaccct caccgtcttc accaacgagc agggcggcgc 180  
catcgacgac tccgtcatcg ccaaggtcac cgaccaccac atctacctcg tcgtcaacgc 240  
cggatgcaag gacaaggacc tcgcccacat cgaggcgcac atggaggcct tcaacaagaa 300  
gggcgggggac gtcaagtggc acattcacga cgaccgatcg ctgctcgcat tgcaggggcc 360  
tcttgctgca cctactctgc agatgctgac gaaagaagat atgagcaaaa tgtacttcag 420  
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<210> 35862

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-H7

<400> 35862

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ggcagcgcgc cagctccata ggaggagatg gcgctcacia gaatcggctt tgctggcctt 180  
gcggtcatgg ggcagaacct tgccctcaac attgcagaga aagggttccc catctctgtg 240  
tacaacagga caacctccaa ggtggacgag accgtgcagc gtgccaaggc agaaggaaac 300  
cttcccgtct acggcttcca tgaccccgcg tcctttgtga agtccattca gaagccacgg 360

gtggtgatca tgctcgtcaa ggccggcgcg ccagttgacc agaccatcgc gacgctcgca 420  
gctcacttgg agc 433

<210> 35863  
<211> 413  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-H8

<400> 35863

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tgcttattgc ccagacagtt tctgcttgac cccacgattc ttcactgatg attcacagaa 180  
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accgtacaag tccacaataa tttctccctc cggtccggc tccgctaga ctcaactcgtc 300  
catgtcgcgc gccggccgct ccctgcccct gccggtggcg gcgctcctgc tcgcggttgt 360  
ggcgctgtgc gcggcgcggc gcgcgcgcgc gatcggcggtg aacttgggca cgc 413

<210> 35864  
<211> 204  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-H9

<400> 35864

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ctatctcttt atatcctttt cctattctca attcttcacc ttctcttctt cttttaccta 180  
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<210> 35865  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-A10

<400> 35865

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atgacactgc ccagcaaata cagttactaa agtcgattcc accagcaagc ctaccagaga 180  
ttttcaagaa cgcactctct gcaccttttc ttattgacat cgtgaagtgt gcagccttaa 240  
tttttccgga tgcggaggca ttagctggca atattttgga taatttggct cgagttccac 300  
gcttcgactt gataatcatg tgcctttcat ccatgcacaa aattgaactg aagaagatat 360  
gggaacaagt attccttgct gaaaaagcgc ttgctgatga tcggat 406

<210> 35866

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-A11

<400> 35866

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gggcccggcca aggagcgacc catccatggc gactaggggt tggctcaccg cctcctgct 120  
tggtttctct gtcgccgctt cccctttcac cggccgagtt gctagagctg aatccgagga 180  
agatgctgct gcagctgagg ttgttgaagg ggctgatcta tgtattgtgg gtgatgatac 240  
acaggtttcc agtgatggac ctttaagtcc tgctcctggt gtagagacag taattgtctt 300  
ccccaaaaat gctggcaaaa ttgtactagc aggtgaagaa actgaattac tagttggtct 360  
gcaaaatgac ggtgaatcaa ttttgaa 387

<210> 35867

<211> 217

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-055-Q1-K1-A12

<400> 35867

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caggagaggc ttanggtttc cccgtgcccc gccgccacag tgccaaccca gctctccggt 120  
gcgcccgcga cccctgctcc cgtcgacagg gtggcagcgc cgtgcggagt cgactcgccg 180  
tccgctggcg ccgtgtgcag ggccgcgggc aagggga 217

<210> 35868

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-A2

<400> 35868

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ggtaattcta ggcgtaggtt gctgtgctgg ttggggttta ctggtgaacc agagtttttc 180  
tatoccacta tgaatttggt acctcaagtt acctgg 216

<210> 35869

<211> 314

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 35869

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tttgacctc agtccttccc ggtctgcccc gtcgacgcct cgccggagga agccctcgt 180  
ctccttgccc tgccggcgggt tcatgggggt ctcgctgtac cccatgaaga cgtccacgcg 240  
gatgctctgg agcactagct tcttccgcca taagctcagc tctgctnct gcttcctctg 300  
aggacgcccc accc 314

<210> 35870

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-A6

<400> 35870

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tgtgttggtg ctgttgaatc ggtggggcaa caaatctcta ttgctttcat ggataggggt 180

aaggaggatt tcacaaaaag gtatggtggt gggaaagctg ctactgctgc agctaacagc 240

ctcaatcgag agtttggatc aaaacttaaa gaacacatgc agtattgtgt ggatcaccct 300

gaagagggtta gcaagctggc caaagtgaag gcgcaagttt cagaagtcaa ggggtgttatg 360

atggaaaaca ttgaaa 376

<210> 35871

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-A7

<400> 35871

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gccgtgaatc tagttttggt tcacgttgtg ttatatatta ccacagtcca cgctgtactc 120

atagtgatca cgcttgagct gtgtcatgga ttctggaaga ccatcattgg ttcaaagcat 180

ttcaatggtg tgctccaatg tgccatgcc tacaaatggg aggtctgggt gcttgctttg 240

caatggcatg atctggcatt aaaaatatta ttcacttata cctgtatttg gtc 293

<210> 35872

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-A8

<400> 35872

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aaaaggtttc aaattaaagc actgttgtag ctcttgagtc caaaccttg aatgaaaacc 180

actggaatta gtcagagcat tacgtctggc atggctaata atcaggtacc ccaacctaata 240

gactttttgaa aagataccct aagtgttaac ccagctggag ataaggagca atctcctgtg 300  
acaaccgagc caactactaa cgtactggag gctgatcttg ctcaaccagc acatgatgtt 360  
gatgaaaat 369

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<223> unsure at all n locations  
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ccgccgcgat gtctcgccgc tatgacagcc gcacgacgat cttctcgccg gaggggcgtc 180  
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<210> 35874  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-054-Q1-K1-H3  
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gccgtcccca acgccgtccc gggcaagccg ctggcctact acgcgctgcg cgaggaggtc 300  
cagaagcagc tgcagaagca cccgaacgcc aacgtcgtgg tcaccggcca cagtctcggc 360



gccgcgctgg cgaccatctt cccggcgctg ctggcgcttc acggggagcg 410

<210> 35875

<211> 188

<212> DNA

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<400> 35875

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gatgcagcac cgtggtccga ccccgatggc ggccttcgc cccgaaccaa tcgaccgcga 180

gaagacct 188

<210> 35876

<211> 348

<212> DNA

<213> Zea mays

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acatcgccgc tgcgcgcgcc gtcgacgacg ccgtgcgcac ctcggtgggc ccccgaggca 240

tggataagat gatcgcttcg ggcgaccagg ctcaggaggt catcatcacc aatgacgggtg 300

ccaccatcct ctcccgcatg gcgctcctnc aggcgcggcg gcgcatgc 348

<210> 35877

<211> 284

<212> DNA

<213> Zea mays

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<400> 35877

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 gctcgtggc tgtgtccgct gcctcagcct tcactctccg ttctagcttg aatggacaat 180  
 tgtaagataa cccgactaac tcgacgcttt taagatctct tctaggtaag ctatcgccag 240  
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<210> 35878

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-G1

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 caacggctat gctatgcaac ttcattgact ttcggatcgg agagggtgta cgtacgtgga 360  
 ttgattgatg ctgagagatg catgtgtgtc ttatggttca cgttgcatg cataggcaag 420  
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<210> 35879

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-G10

<400> 35879

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 ttgttccata cgaagggtgt ggtaatttgg aagagatttc agaagttgaa ggtagatcgg 180  
 aaaggatatgc agttcagaaa gacgagagct tgtcagaaat aaggacgcaa ctccctcaga 240  
 ttgaaaatca gcaaagcagt ttactggatc ttctccagaa atttatgggg aagtcggaaa 300

acggtatgcg ttctttggag acaagagtgc atgggctgga aatggctttg gatgagatct 360  
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<211> 280  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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tcctgtgggc caacgcctnc agtttcatca acaagtcccc accaaacatt cctgangtga 180  
aaatccctga ngatgtgtct gttaatgttg cactgacact gagatacgag atcaacatgg 240  
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<210> 35881  
<211> 439  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-G2

<400> 35881

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tgaggaacag agatcagctg ctgcggagct cgggctcctg gcaaagcgga atgcaaacaa 180  
tcgtatctgc attgccgaag ctggtgccat tcccttacta ttgagtctcc tgtcgtcatc 240  
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taacaagacg agcatcatat catccggtgc cgtcccgggc atagttcatg tcttgaagaa 360  
tggaagcatg gaggcacggg agaatgccgc agccaccctt ttcagcctgt ctgtggtcga 420  
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<210> 35882

<211> 377  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-054-Q1-K1-G3  
  
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 atccaaccaa gattaacaaa gctaataacg ttgtcataca atagcctttt gatgaagtag 240  
 acaagcttgc agagaagaca caatcactag acatgcactg aaccagctga acataactat 300  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-054-Q1-K1-G4  
  
 <400> 35883  
  
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 gagaaagcct gcgagcgatg ggcatcggcg acgtcatctc cgagttctgc tccttgccga 180  
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 ttgactgcga aggggtgccag cgcaagggtga agaacgcggt ggagggcatg aaaggcgtga 300  
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<210> 35884  
 <211> 434  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-054-Q1-K1-G5

<400> 35884

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gaagttctgg agctgtcatt tttctaggca catttgagc tcttgcggta atgaccatta 180  
tatctgtagt tcttggtcga gcattccact atgttgatgg catcattccg ttcagctttg 240  
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ttactacatt acttgatgca gcctcaggtg atgatgaaaa gatcaatgat gagcacgagg 360  
aggctgagtt agcagtatcg aaattttctg gaaatgggtgc ggtggtcatg tctgctgctg 420  
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<210> 35885

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-G6

<400> 35885

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ggcagtgagg gccctcatac tcacttacia ctacgtcctg atcgactca tcgtcgacat 180  
agtacaccgt gactggcttc ttgattgccg actgtgtgca tgttgatctg cccatgaaaa 240  
ccaactacct tgctcgtcac atcaatacca ctgctaaaca aatcgaggat gcgtacaatg 300  
aatttactac gagggatgat atcgctattg tgctcatcag tcaggatatt gccaacatga 360  
taagggtgtt ggtgggta 378

<210> 35886

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-G7

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ggctcgcaag acctagatca ctagtagaca aggatagcag catccacaaa cacaatccat 120  
atcagtgaag gccaacatat acaataacaa ctgcagactg atcataatga tattcgacca 180  
gatctccgtg actgacatct tgaaggacga cgatggctac gttgatctga gcaagaaaac 240  
caactacatc cacttcgaca aaaatacgac agtttaacaa atacaggatg cgttcaaaga 300  
atatactacg atggatgata ttgctattgt gctcatgaac aagtataatg tcaacatcat 360  
aagggtgtctg gtggatagc 379

<210> 35887  
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<212> DNA  
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<223> Clone ID: LIB3069-054-Q1-K1-G8

<400> 35887  
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<211> 294  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-G9

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atattctcta taaatctcaa tattctcaag ccattctttt aacatattat atactttcga 180  
atcttactct acaaacctgc tattattgaa aactcattta ttccattact ttatacactt 240  
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<210> 35889  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-H1

<400> 35889

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cagataaacc tgttccaatg gccaaacaaa aagaggggtgt ggacaaaaga actgctagga 180  
agacgatccg atctacggaa ggctgtgcaa agagcattac tttcgagagg aacaacaaat 240  
cagacgctgt gcagcttcac gatctgccga atgacatcct aggtagcata ctatcacggt 300  
tgacattcag agaatcctca cagatggggc ttgtttctca tacctggcgg cggtgtgga 360  
gaagctgttg ccggaaactg gtcttcacca gtgccaccat gttccaaccc ggaaatagga 420  
gcatcaaaca taaaagac 439

<210> 35890

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-H10

<400> 35890

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tgcaattgta gtagagaact gtatcgtccg acgaagggtgc atgggtgttg ccatgggtca 180  
cggcagggaa cagagacgag caggctcggc ctcttcccc agctcattga tcctgtcctc 240  
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ggca 304

<210> 35891

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-H11

<400> 35891

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agttgctgca gccgtagtta tcgctggcta cttgtacgag gcttccaaga aggccaagta 180  
gagggcgaag ttcttctcca catggctttg ctttagtaag tctgaagatc gaataacagg 240  
accatatctg aagatcgaat aacggatcat ataaatgagt tactcggaat atgttctgaa 300  
atccttacga acagaacggt gccttcatgt ttacactgta ctcatgagtc acagtgatat 360  
ggagatggca tagcctacta ttggaagttt atgcattctg tgt 403

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<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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cagataaacc tgttccaatg gccaaacaaa aagaggggtgt ggacaaaaga actgctagga 180  
agacgatccg atctacggaa ggctgtgcaa agagcattac tttcgagagg aacaacaaat 240  
catacctgt gcagcttcac gatctgccga atgacatcct aggtagcata ctatcacggt 300  
tgacattcag agaatcctca cagatggggc ttgattctca tacctggcgg cggctgtgga 360  
gaagctgttg ccggaactg gtcttcacca gtgccaccat gttccaaccc ggaaatatga 420  
gcattaaaca ta 432

<210> 35893  
<211> 383  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-054-Q1-K1-F7  
<400> 35893

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gtcttcttca ttgcaccccc ttttaagaat agttgttacc gaactgtcca ttctgtaatt 120  
tattataaat tcgtaatta ttacaaatac tgtggttaat aaagaatgtt ccaccagcgt 180  
aagactaact acctgccga accctctacg agtacaagac agaagcctca actgaaggat 240



ctgagcctga gcgccctccg gacgacaaga acaggttctg ctttttatag ataccattta 300  
 tcactagcta gaatacatat tcacacgcat catctatcac accgcaagct tataattgac 360  
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<210> 35894

<211> 173

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-E3

<400> 35894

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 gttgggggttg aaaaatagaa cccggtcttt ttggaatccc ttattcctta ccaccatgct 120  
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<210> 35895

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-054-Q1-K1-E4

<400> 35895

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 aaatgggaga acagtatgat ccatgcactg agaagcattc aactgtatac ttcaatctag 180  
 ctgaggttca gaaggcactt catgttaata cagtcattgg aaaatcaaaa tgggagactt 240  
 gcagtgaagc tgtaataact cattggggag attgcgaaag atctgtgctg catatctatc 300  
 atgaacttat acagtatggc ctccgtatat ggggtgttcag tggagatata gatgcagtga 360  
 ttccagtgac ttcaactaga tacagcatcg atgctctcaa gcttncaaca ataactccat 420  
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<210> 35896

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-E5

<400> 35896

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cgttcgagcc tgggcacgag aggcagccag cccatggatg taaattacgt ggagcacact 120

ctgtatccta tgactttcaa gtatctaggt ccatgtaagc tttttgtggg tgtctgtgtt 180

caactgagac gtttttatcc ggagttgaac atcacaataa agcaaagtca ctgataccat 240

gtaatggaac tctgagcgct tgaaaaaaat gaactcacia taaaaaagaa 290

<210> 35897

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-E7

<400> 35897

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gctcgccaaa tacgcaaagt ggttcgacga cagctcggag gacatcagga gcctctgcgg 180

gaaggcgctg cagatgctgc gcacgcacta cggctgggag agcgtggacg tcaccgtccc 240

tgagatcgaa gagatgcggc tggcgacta cgtgaccatg ggctcggagt gcaactgcctc 300

cctcgtgcc aagtacctgg acagcatgga caggccgag gtcgggtggg acgtgcggat 360

cgcgctcagc gcctacgggt ccttcagcag ccgagactac ctcagcgcgc agcgtctccg 420

atgccggcag atgtacttc 439

<210> 35898

<211> 440

<212> DNA

<213> Zea mays

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<400> 35898

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ccagccccct ccgcgacgtc gccgccgccg ctgctggcgg ccggatcacc atgggcaacg 120  
acctgtggta cggcccggac cgcgtcaagt accttgcccc cttctccgcc cagacgccct 180  
cgtacctgac cggcgagttc cccggcgact acggctggga caccgtcggg ctgtccgcgg 240  
acccggaggc gttcgcgcgg aacagggcgc tggaggtgat ccacgggcgg tgggcgatgc 300  
tgggtgcgct gggctgcac accccggagg tgctggagaa gtgggtgcgc gtggacttca 360  
aggagcccgt gtggttcaag gccggcgcg agatcttctc ggagggcggg ctggactacc 420  
tgggcaacct caacctggtg 440

<210> 35899

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-E9

<400> 35899

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caggattcaa aatatgctgc tgacctaatc aaaattcttg aaggggcaaa ccaacgaatg 180  
ccccgtgatt taaaagatat ggcttcttct gccggtggac gaagtaagaa taagaaccat 240  
tgggcatccc cgccttaciaa ggggtggttca ctttctgaac tggattcaag gtacagcaac 300  
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<210> 35900

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-F1

<400> 35900

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attgcttctg tagactagta ccacacagtt tgcgagaagg ggagaggtag aggttccgag 120  
gtagagagat agagaggagg agaggaggcg cgaggcggcg gattcgtcac tccgttctta 180  
ttcgctgatc tggaggaagg aggcgaggta cgcactgcta tctccttcca gttcgttcga 240

gaagacggtc gttgggtgat tggcgggcg ctctgttct gtagtaaagt tgtttgcggt 300  
 tttgtctctt gtatgattgg tctcttgatc ggaaacagaa gtcccaaat ctttcttttt 360  
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<210> 35901

<211> 387

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-054-Q1-K1-F10

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 tttccttttt catcgatgcg atgtacactt atcgtttcta cagagttctt tagtttctag 180  
 aattattgca ggggataata agaagaaatg agttaagaaa atatgtaatt tcattctttct 240  
 aaatcatcat ggaccaaagc cattataatg agcaataacg gtaaaataaa gagtcaactg 300  
 atcagtacat tccaaatctg tattgaatag tttgtaactt aggcctttatc ttttggcang 360  
 ttggacacat gtagaaacta ttgattc 387

<210> 35902

<211> 151

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-F11

<400> 35902

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 agttcaactc aaaacacatt ggcacctata agccttaaaa taccggccat taaagcacia 120  
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<210> 35903

<211> 284

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-054-Q1-K1-F12

<400> 35903

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tttctcttctc tgcgggtctg ccagtcctc acggttctct ttttctttcg ggccactctt 180  
cggcctctta cttgtctgccc tcggcctttc tgcgcattgc tcctctgttc cccccgtcag 240  
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<210> 35904

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-F2

<400> 35904

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gatggtgtaa agcagcagtg cccggtaccc caccagggtg cgtgatgcag gcaggggtgg 120  
tgctgtctgt gtcgatgccg tcctcctttt ctggcgtggc gctgcatatg accgacgtgt 180  
cacggcgcgt ttgggtgccc ggccgcgcgc cgtcaaaacg tatcaagtac tactactacg 240  
tgccgtgccg ggtgttgcgt caaaacgtaa caagtttctc ctttccgttc ttttgtccga 300  
gcgagtttac aagtactata ctaccaaagg cgaaagcgaa cccgcaattt tcctatgtag 360  
gagtatatac tagtggactg caccaacatc cggtcacagt aaaccatgtg ctttttccga 420  
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<210> 35905

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-F3

<400> 35905

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tgggtgctgtc tgtatcgatg ccgtcatcct tttctggctt ggcgcttcat atgaccgaca 180  
 tgtcacggcg cgtttgggtg ctcagagctc ggcggtcata acgtatcaag tactactact 240  
 acgtgccgtg ccaggtgttg cgtcaaaacg taacaagttt ctcccttccg ttcttttgtc 300  
 cgatcgagtt tacaagtact atactaccaa aggcgaaagc gaaccgcga ttttcctatg 360  
 taagagtata tactagtggg ctgcaccaac atccgggtcca cgtaaccat gtgccttttt 420  
 cgacgtgtat gttttattta at 442

<210> 35906  
 <211> 443  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-054-Q1-K1-F4

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 ctgatgatgt tgcaggaatc atctcatcga aggctggcct caagtatctg ggtcctgatg 180  
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 ctgctctccg tgattacaaa gctcagctgg aagaagatcc tattgtccac aggcaccttt 300  
 cctcgtgtga tgacactctc ttggagcaga acctctgcag gctgattgag cctactcaa 360  
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 <211> 430  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-054-Q1-K1-F5

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 gcttaaccgc attcttcaat tgactgggtt cagcgatcct gtgtatgctg aagcatttgt 180

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 tcagaactac accttggtc ctgagtctag caaacagatc cgtgctaata tcaaggtttc 360  
 atgaacagag acggcggtta tatttgcaa catagtttac gagacttcaa atgtgatgga 420  
 acgatcagtg 430

<210> 35908  
 <211> 412  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-054-Q1-K1-F6  
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 tcggcctagc tacctgcccc gcccctctcc gagtaccgtc ggaagcctca gctgaaggat 240  
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 actagctaga agacatatc acacgcacat gctatcaa at tgcaagctta gaattggcct 360  
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<210> 35909  
 <211> 422  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 gccgcgcgc gcctccctgt ctctcccca gcgcctgcca cggtcggagc aggaggcggc 180  
 gtgccgttct cgatccaggc gcccaaggag aagatcgaga tgtactcgcc ggccttctat 240  
 gccgnctgca ctgccggagg aatcgccagc tgcgggctca cccacatggc cgtcacgcct 300

ctcgacctcg tcaagtgcaa tatgcagatt gacccagcga aatacaagag tatctcatct 360  
ggatttggtgta tcctggtaaa gggagcaggg gccaggggtt tcttcagggg atgggtgcct 420  
ac 422

<210> 35910  
<211> 423  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-054-Q1-K1-C8  
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caagtgggaa tcaatggaag catgaaccca tgcattccatc caatggtttc tgcagaccca 180  
aaatttggtgta gtagtgccac accacagact tttcctcata attatgctgc ctttgctcca 240  
atgatgcagt gcaactgcaa ccaagatacg tacagggtcat tcaccaacat gtcattccacg 300  
ttctccagca tgcttggttc caggttggtt tcaaaccctg ccattcatgc agctgccagg 360  
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aac 423

<210> 35911  
<211> 366  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-054-Q1-K1-C9  
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catcccgaag catgattata agaaattgct ggtagccgtc tgtcgttcta gaactggtag 180  
gccctgggtg gaactcttagt attttaccga tttgaaagaa tgctatggta ttggatgata 240  
ctatgggtata gaaagtcaaa aactggttgt ttgtatcagg taaaacgctg tttcgaatac 300  
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gacttc

366

<210> 35912

<211> 416

<212> DNA

<213> Zea mays

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<400> 35912

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gacgtgccgg tgaacgagaa cgaccttcac ctccaggagc tcgcccatt cgccgtcgat 180

gagcacaaca agaacgcca tgctcttctg gggttcgaga agcttgtgaa ggccaagaca 240

caagtgggtg ctggcacgat gtactatctc actattgaag tgaaggatgg cgaaatcaag 300

aagctctacg aagctaaggt ctgggagaa ccatgggaga acttcaagga gctgcaggaa 360

ttcaagcctg ttgaagagg tgctagcgcc taaggatctc tacttataca tgtgcg 416

<210> 35913

<211> 357

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-054-Q1-K1-D10

<400> 35913

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gtccaaacac atgtctactg gctgaaaata gctcattttg gaggtacatt tgcacaaagc 180

tttgatgaat gctggacaag gatgatatgg gcctccgccc aaagctgtct gggattcaga 240

aacagggtttt ggcgctgtac aggggattcc ttcggacagc acgccttaag gccctgaag 300

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-D11

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taccaccac caacggggta gcaaaacgtt tacagtacaa tgcgctgggtg aaatgagtct 180

aacaatcgca ggatagatct atacttgagt ttactgctgc agcgaatacc aaacatgtcg 240

gcactcaaaa aggttttctg gttcttgggtt cttggcagaa aaatgtaact gatctgtaca 300

gaagttttgc aactaatttg gtatccaatg tgggggttga gctgttgctt gtgaacttta 360

gtaccctaga gaatgttagt tccaggatga aactgtttac gcagactcta gctggacctg 420

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<210> 35915

<211> 278

<212> DNA

<213> Zea mays

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gagctcgagg cagcgatcgc cgggcacgcc gacttctgcc acgcgctctg caggcgcccc 180

acgccggcca cggccgaacg gctcatcgca acggtgccgc agctgcttcg cggcgccccc 240

gccggcggca aggaagaaaa aaccctggtg gttgttga 278

<210> 35916

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-D2

<400> 35916

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 ggtcagagca taagactctc atggggccgt agccctgcaa acaagcagcc tcagcaagag 360  
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<210> 35917

<211> 119

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-D3

<400> 35917

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<210> 35918

<211> 171

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-D4

<400> 35918

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<210> 35919

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-D5

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 ccggctacgc gttcgggtgc gtgggcgcgg tggccggggc gacgaccaac ctgccgaagc 180  
 aggggctcct cggcctcggc cggggcccca tgtctctgct atcccagacc gggagcaggt 240  
 acaacggcgt cttctcctac tgctgcccc gctacaggtc ctactacttc tccggctccc 300  
 tccggctggg agccgccggg cagcccagga acgtccggtc cacgccgctg ctgaccaacc 360  
 cgcaccgtcc gtcgctctac tacgtgaacg tgacggggct cagcgtgggt cggacctggg 420  
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<210> 35920

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-D6

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 ggcgtggagt cgttcccgtt caaggccggc aagtaccaga tgaagaagct gtgcctggag 180  
 ccgacgtcct tcaccgtcaa ggcggagggc atcgccaaga acgccccgcc cgagttccag 240  
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 gtcgggtccg acggcacgct caagtctgag gagaaggacg gcacgacta cgccgccgtc 360  
 accgtgcagc tcccgggggg cgagcgcgtg ccgttcctct tcaccgtcaa gcagctcgtc 420  
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<210> 35921

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-D7

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 acctacagaa cagttagaaa atgaagctga tgcaagtgac agcggcaaaa ctccctctgg 240  
 tacttgcggtt atatgtctgg atgcccctgt ggaaggtgcc tgcattccgt gcggccacat 300  
 ggctggttgc atgtcctgtt tgaaggacat agaatccaag aagtggggat gccctatctg 360  
 ccgtgccacg attaaccagg ttgttcgcct ctatgctgtt tgaggagttg aaacgggtggg 420  
 ttcagaaaagt tggcaatgga 440

<210> 35922

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-D8

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 atatcagaag catcgttctt cgttggcaga cactgttcaa ttcaggaggc cagctgctcc 180  
 aacttccagt gtgaatgctg atattgtggg aacatccact ctgcagtctg catctctacc 240  
 gaaacaagaa tcttcaacag ctacatccaa gagctatact ttcagagaag gtgatagggt 300  
 gcgttatgtg ggtccagctc agttatcctc attgtcacia aggtcctctc ccttttgctg 360  
 gcttcgctgt tggaagcgag acatcatgtg gtgtggataa cgtccttgca gagcacgtga 420  
 actcaaattt cactctaa 438

<210> 35923

<211> 276

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-D9

<400> 35923

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aagcaaataa ttggtttaat attataagga gaaaattaag caaccattgg ctttgtaccc 180  
 aggtgtatgt ccggttcaaa atgaattttc tgatcaagct gacaatacat tttgcaatgc 240  
 tttgtcttaa ttgctgaaac attgtatcgg taacga 276

<210> 35924  
 <211> 438  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-054-Q1-K1-E1  
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 cttaaactct gggatattcg atgtggtctg gtaacaaaag aatttcagag aagccttgga 180  
 accatccttg acattgactt cagtgtgat ggaagacaat ttatctcttc aactgacaca 240  
 accagaagca atattagtga gaacactata attgtttggg atgtcctgcg acaagttcct 300  
 ttatctaacc aggtttatac cgaagcattc acatgcccg gtgtaaggta ccaccacgt 360  
 gaagcatcat ttgttgaca gtccaatggg aactacattg ctatcttttc agcaaggcca 420  
 cccttcaagc tgaacaag 438

<210> 35925  
 <211> 301  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-054-Q1-K1-E10  
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 gttcatgcct acgtactctg ctgcggcaa catgcatcca cgatacaccg tttacgaact 180  
 gtgtatacaa ttgctaaaca ccatgcatga ctataaactt tcacacattg gtctagctca 240  
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 c 301

<210> 35926  
 <211> 397  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-054-Q1-K1-E11  
  
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 cctggcacca agcgcctttt gtggaaggga aaccgcacc aaaagcaagc tgcgcggtca 180  
 gcgatggcgg gacggacgtc atcatcgctg gcgccggggg agctggatct gcgctggcat 240  
 acacgctcgg aaaggatggc cgttcgggtg atgtcatcga gagggatctg acagaacctg 300  
 acagaattgt gggcgagctg ttgcaacctc ggggttactt gaaattaatt gagctgggcc 360  
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 <213> Zea mays  
  
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 cgcagcgtgg cgtaccagcc gtgggtctgg actgcagtca accacgagct ggacttcgcg 180  
 ccggatctgt gcgagaccac gccgttcaag cccttcgcgc accggtacct gacgccgtac 240  
 cacgccggcg ggagcacgga gcccttgtgg tactcggtta acgtcgccta cgcgcacgtg 300  
 gtcgtgctgg actactactg cgctacggc aagtacacgc cgcactgggc gtggctgcag 360  
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<210> 35928  
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<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-B10

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caagctgttc agccggtgtg tcgccaagaa ggagatgcgg atcctgatgg tgggactcga 180
cgccgccgga aagaccacca tcctctacaa gctgaagctc ggcgagatcg tcaccaccat 240
ccccaccatc ggattcaatg ttgaaactgt ggagtacaag aacatcagct tcaactgtctg 300
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<210> 35929

<211> 382

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-054-Q1-K1-B11

<400> 35929

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gatgaagggc cacgagcgcc cgctcacgtt cctgcgctac aaccgcgacg gggacctcct 180
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gcgtctcatc accggatccg ccgaccagac cgncaagctc tgggatgtca gcacggngaa 360
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<210> 35930

<211> 185

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-B12



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ggccgacgtg tacatagtca gctggaacga ccacttcttc gtgctcaagg tggagagcga 120  
ctgctactac atcatcgaca cgctcggcga gaagctctac gaaggctgcg acaaggccta 180  
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<210> 35931

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-B2

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cttgcgctcta tttggctgcc ggcaataaga tgagcacgac gaactcaaca tctattccag 180  
ctcgcagcga ctgcggtcca gtcccatgcg ccaaagtctt cgacactttg ctcccatgc 240  
tggccatcgt gatggctgca gttatggtgt gatctatgga aaaaaaaaat gctccagcta 300  
gcctccttaa gacctgagat gaaaggtgaa ttgcgtaatg ctgctggtaa ccattgaagt 360  
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<210> 35932

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-B3

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acgatggtga gaaggacggt gctggcggcg ctgctggtgg ccgccgccct cgccggcggc 180  
gcgcggggcg agctcaagga ggggttctac gactactcct gccacaggc ggagaagatc 240  
gtcaaggact acgtgaaggc gcacattccc cagcgccccg acgtcgctt caccctgctt 300

cgcacccact tccacgaactg cttcgtcagg ggctgcgacg cgtcagtgtt gctcaacgag 360  
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<213> Zea mays

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ctcgagggtg acagaaccaa cgcgttgaac tgcgctttga ccatgggtatt ctacgagctg 180  
cacggtcacg acagatgcga tatgcagaca acttggtgtg agcaca 226

<210> 35934  
<211> 319  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-B6

<400> 35934

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aaggggtggca cagttttaag agctcaagcg tgggacagtt atggctgcat tgcattcctg 240  
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gcacttgtcc gttgattcc 319

<210> 35935  
<211> 439  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-B7

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<210> 35936  
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 ttgatcaagg ccttagtcct ggctgagtta cagaggctga tactaaaagc cgaggccaca 360  
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 <213> Zea mays  
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atggaagttg acagagtact aaggcctggg ggatattggg tgctatcaag cccacccatt 240  
ggctggaaga ttcactataa aggggtggcaa cgttcaaagg aagatcttcg gaatgagcaa 300  
agaaaaatag aatacttcgc acaacttctt tgttggaaga aggtatctg 349

<210> 35938

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-C10

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cagttcgata ttcgaggaac ggtggatgag ttcaagcatg aaatcaacat gtatatgttc 180  
tggaagcctg ggatggagtt agctggttct catgttcgta agaagcaggt ccagcttat 240  
gtgtttccag aaggttataa aaagacctcg cttcaagac atgtgaacca tcagtctgat 300  
aaaaatgaca ctgaagatgg cacaacgacc aagtcttcaa acagtcaact gaagagaaag 360  
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<210> 35939

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-054-Q1-K1-C11

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tggctacaa tgcataaac aatgagcttg tgaggacaca aacccttggt aagagtgcc 180  
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<210> 35940  
 <211> 204  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-C12

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<210> 35941  
 <211> 421  
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<223> Clone ID: LIB3069-054-Q1-K1-C3

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 tcccattatt ttctttggta accgacgcca ttgaaggcct ccatgaatac ccgcggcgcg 180  
 ccccatgacc tccctggccg acccttcccc tctcctctct gctccctata aaaccgagct 240  
 cctctctct cctctctccc tcgcctaccc gagctctctc tcattctctg cactctctcc 300  
 ctgcgccgtt gtcgccggag ttgcgcgttc atcaccggag ctaagccacc ccaaagttga 360  
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<210> 35942

<211> 407  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-054-Q1-K1-C4  
  
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 tgggcgagtt ctatgtagag aatcggtttt acttgtctca gcccgttgtc tgetgcgtct 120  
 ggcgggtggtg aacgggagaa attcgtgaga tctgatccgg atcaggcgcg cgagctcggg 180  
 aatcaggggt ttcacacata gtttcgtcga tttgaatctg atgtactaat ggactctaata 240  
 ggtggcaaaa agtctagcat tagtcgtctt atgatgtatg aagctccctt tggctacagc 300  
 attgaggacg ttcgacctgc cggacgcgtg tagaagttcc agtctgctgc ttaactccaac 360  
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 accgagacac ggcgggtgac ctgccccgcc gcagtcgggg tgtatgtatt accaccgaca 180  
 gaattccagg agacgaggat cgaggaggca ccgatccgta gcggcgatat cgtagagccg 240  
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 catggaatga tattggcaag gttgcacatg tatgactgga taatacttct cctgcttgct 360  
 gtcatagacg ggctgttgaa tataattgaa ccatttcacc gttttgttgg gaaagacatg 420  
 atgactgact tgagata 437

<210> 35944  
 <211> 413  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-C6

<400> 35944

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cttgcacaca gggcaaagct tgatgacaat gctagactac ttgacttcac ccagaagctt 180  
gaggctgcct gcagttggag ccgtcgagtc tgggaagatg accaaggacc ttgcccttct 240  
cgttcacgga tcttcaaata tcacgaggag ccattacctg aacctgagg agttcattga 300  
cgctgttgct gacgagctca gatcaaggct ggcgccaac tcgaaccttt gaaatccttg 360  
ccgaagttgt ggtgctttcc tgcgcgacgc tctcgaaccg tttttattat gtc 413

<210> 35945

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-B1

<400> 35945

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aggcgttcag gccaaagatc taggggccgg aaacttcaat acattgctga acttgcaaga 120  
actgttgact cacttcagaa cattgggtgct gatttggctg tcagagtgtc atcaacttttc 180  
cagcttcata atgctctatc tatggaaaac aagcagctga ggatacagat ttctagtctt 240  
cagcgtgcaa aactgattaa ggatggtcag acgcaggccc taaagaacga agccgaaagg 300  
ttgaagcgga tgtccgtccg ccggagcaga agcgccacgg actactgtta cgaccggggc 360  
tcgttctcgt tcggagcaga tgcttcgtca gtcagctggc agatgcctga catggcaagg 420  
ctc 423

<210> 35946

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-H1

<400> 35946

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taagagcact acgaggcctt gtacgattga agtcattggg tgagggtaat tcagttaagc 120  
gtcaatctgc aagcactctg cgctgtatgc aaactctatc gcgggtgcag tcacaaatac 180  
gatctaggag agcaaagatg tccgaggaga accaggccct ccaacgccag ctctactta 240  
aacaggaact ggagaatttc agaatgggtg agaactggga cgacagcact caatccaagg 300  
agcaaatcga ggcaagccta ataagcaggc aagaggcagc gataagaaga gaaagaactc 360  
ttgcatatgc attttcacat cagt 384

<210> 35947

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-H10

<400> 35947

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gctgggttat tgtatgcaaa ggcgtcctga accaaattcc cgtcgttatc ttggtgtttg 120  
tttccactct agttggctgg gcagtgaagc aagccaccaa cgtcatccag atgaaaactg 180  
ctgcggaagc atgcgtgggtg tatgatctga agcgcagcaa atgaagcatg aaggcagctt 240  
cacggtttag tatcgacata tccaagggaa aactctgcga gggggcgggc tacgtcttgc 300  
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<210> 35948

<211> 231

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-053-Q1-K1-H2

<400> 35948

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ggaactgttg attgatgagt cgctgtacgg tttgtcgact tgatgatatg ttgatgtggg 180  
agcccctgaa tgaggcggta ttaatggaaa tataggatgg caatgacaat c 231



<210> 35949  
 <211> 364  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-053-Q1-K1-H3  
  
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 gccactttgt cgccatagac gatattcaat gggaaaaagc ttgaagatat tgttccttca 120  
 tcacacaact gtgacattcc gcatgtgaac cgtactgagt atcagctgat tgatatttct 180  
 gaggatggat ttctgagcct tcttacttca gatggcaaca ctaaggatga tcttagactc 240  
 ccaactgatg agactcttgt ggcccagatt aaggaagggt tcgaaagcgg gaaggatctt 300  
 gttgtgactg tccactctgc gatgggggag gagcacatct gcgcgttgaa ggatggttggc 360  
 ccca 364

<210> 35950  
 <211> 268  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-053-Q1-K1-H4  
  
 <400> 35950  
  
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 actggaatct agaaacattc tattgaatgc gtcgatggct gcaacgtaat cagagcgtag 120  
 ctctgggtag tttgggatct gcaaactc tattgaatgt atcctggact cagcataaat 180  
 gatagatata tcggaggatc actatatgat ccacaccacg tgagatggca acactaagga 240  
 tgatcttaaa ctcccaaata atgagact 268

<210> 35951  
 <211> 112  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-053-Q1-K1-H7

<400> 35951

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<210> 35952

<211> 336

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-054-Q1-K1-A10

<400> 35952

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cggggggtcgt ggaagacgga aggaagcgaa tcaaccgcga ctgtctneca cggaataaaa 120  
gcaggcgaag ccagccggtc gcggaacccc caattctcag ctgcggccgg cgatcgagtc 180  
ggttccgtcc cgcgccgatg cggatcccgc ggcggaaggg cggggccggg ccgctcgtctg 240  
tcgggggtgcc cagcatgcgg gcgcaagtcg ccgcgggtctt cgcgctcgtc gcactgctgg 300  
gggtctccgt gctctacgac aacgcccaca ttggcg 336

<210> 35953

<211> 74

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-A11

<400> 35953

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ggggacaaca aaaa 74

<210> 35954

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-A12

<400> 35954

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 tatgatgccc ttccaagcag cgTTTTTTaa acttaaaagc caagatacaa attttctgtg 180  
 caacaacgga taagaacata ctttttcaaa ggaataattg aattggtctt gtggattctt 240  
 tttggagtct tgtgggacaa gggattgcta attttgataa tgacagccaa aacgggagtg 300  
 taaagaagtc agaggatgat gtccctgttc cacctcttct caagacttct gctttgtggg 360  
 gtgcattcct tgctgtttct tccaacaca 389

<210> 35955

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-A2

<400> 35955

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 caaggcatgc ggaccagga agaagtcggt gacgcggtcc gtcaaggccg ggctgcagtt 180  
 ccccgtcggc cggatcgggc gctacctgaa gaagggcccg tacgcgcagc gcgtgggcac 240  
 tggcgccccc gtctacctcg ccgtcgtcct ggagtacctc gccgtcgagg ttctggagtt 300  
 ggcatggaac gcggcgaaag acaacaagaa gacgcgcatc atcccgcgcc acgtgctcct 360  
 ggcgatccgc aacgacgagg agctcgggaa gctgctggca ggcgtcacca 410

<210> 35956

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-A3

<400> 35956

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 gccgtacca cgctggcact ggcccccgtc tacctcgcgc cgtctgagta cctgcgcgag 180

ttctggagtt ggcaggaacg cgcgaaagac acagaaacgc gcatatcccg gccactgctc 240  
ctgcgatccg acgacgagag ctgggagctg ctgcagc 277

<210> 35957

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-A4

<400> 35957

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cagccatggc ggaggagccc gccgttgctg tggcctcctc cagctacgag gttgacctcg 120  
ggaacctcat ggcgtacgat ccgtcgcatc acgtcgccac cgccttcagg gaggagctga 180  
gacaggagtg cctgcggaag ggtacagagc tggcgcaggc ggtggccgac gtcctcttcg 240  
cgctgccgtc caacgaggac cgcgacggcc ccattatcca ccttcgccg tccaccttca 300  
gactcccgcg ggagaagcat ctacccaagc ccaagccacc gaccaagtgg gagctgtttg 360  
caaaggcgaa aggaattacc aagcgcaaaa agaacaagcg tgagtgggat gagcaaactc 420  
aatcctggaa gcggactcat ggc 443

<210> 35958

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-A5

<400> 35958

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cccactgcca attgggttcg cgggtgttctt ggtccacctt gccaccatcc ccattactgg 180  
cactggcatc aaccagcta ggagccttgg cgctgccatc atctacaaca gggatcacgc 240  
ctggaacgac cattggatct tctgggtcgg ccccttcatt ggcgctgctc tggctgccat 300  
ctaccaccag gtgatcatca gagccatccc gttcaagagc aggtcttaag ctgccgtggc 360  
cgtgccgaga catgccagtc cgaagaacgg gcgtcttctt gtgatgtctt cttgtctggc 420

cacgcctagt ttctctgtcg attc

444

<210> 35959

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-A6

<400> 35959

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gttgtgttgt taccctacca tacacttttg aacgcacagg actgccatgc tgctatgctt 120

ggccgactat catatgctgt cgagtctgtt atgcagaccc ttgtcggact ccgcattagc 180

gtaacgattc tcaacatact taggatcctg ggcactagac acatgtacat ctggcttaac 240

tcgttgcaca accatagggc cttatagggc gtgaccatga ttgtcgtga tcatactggc 300

acttacgacc agatgggtcat aactgccata cctttctaga gcacgattta cgctgaccag 360

gtcatacttt gacatgccat gatccagaac ggactgttac ctgtgatggc tacttgactg 420

acaacgccta gcatgaat 438

<210> 35960

<211> 247

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-A7

<400> 35960

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agaaatggta cctttacaaa ttgttttata gaagtgactt ttcattatta tagtaaagaa 120

tgtgtgtgat ctctatgctt gcttcatttt gatcctgtta ttttgtatta aaaaatccct 180

gtttgagggg aaacaatact taggatcctg ggcattagat tgatgtagtt gtaacttaag 240

tcgattg 247

<210> 35961

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-A8

<400> 35961

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attcaaaactc ctggaaagga tgcgagagtt gtcctttctg gtgtaagcct taagtatgga 120  
attgatttgt tggaaagtat ccaaagtggc cctaagaaga agagcacaaa gaagtcactc 180  
aaggatgttg tcacagagaa tgaatttgaa aaacgtcttc ttccagatgt catccctcca 240  
gatgagattg gtgttacctt tgaggatatt ggagcattag aaaatgtcaa ggaaactttg 300  
caggagttag ttatgcttcc tttgcaaagg cctgagttgt tctccaaagg acaacttatg 360  
aagccatgta aagggatatt gctttttggt ccacctggca ccggttaagac catgcttgcc 420  
aaagctgttg caac 434

<210> 35962

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-G9

<400> 35962

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ctctccaact cgcagacatg atggtgacaa agcagctgca gatgatgatg acgatgatgt 180  
ccagtggcag actgacactt caattgaggc tgccaagcat cgcattgcaag agcagctgag 240  
tgcagcaact gctgaaatgg tgatgctgtc gactgaggag actgagaaga agatgaaaca 300  
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<210> 35963

<211> 406

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-054-Q1-K1-A9

<400> 35963

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tgaagaaaga agacggaaat atttatgtct tgttgaatgg gatgggtgcc acaccagaag 120  
gaaatgttcc attcctcgat ttgtttgata taaatactgn gagtaaagag cgtatatggg 180  
agagcgacag ggaaaagtac tatgaaactg ttgttgcact gatgtcagac aaaactgacg 240  
gggaactgct ccttgatcag ttaaagatac ttacgtcgaa agaatcaaaa acagaaaaca 300  
cacaatatta cttgcagact tggccagaaa agaatacaagt taagataaca aatttcccnc 360  
acccatatcc tcagcttgct tcattgnata aggaaatgat aagatc 406

<210> 35964

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-E8

<400> 35964

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atacggttcg tggacgcgag cggccaactg gacgagcaag ggcgcgagtt caaggggatc 120  
gtccacaacg gcatcaagat cggtgcggtc ctctccatcg cgcagcacat accgtggctg 180  
cgctggctgg ccccggtcga cgagcaggcc ttcaaagccc acggcgaacg ggcgcgaccg 240  
ctcaccgtga agatcatgga ggagcacgcc agggccctca agcagcgcgg cgcccagcag 300  
cacttcgtcg acgcagctct tcactctcag ggacaagtac gacctcagcg atgacaccgt 360  
catatgcctc ctctgggaca tgatcaccgg cggcacggac acgacggtga tct 413

<210> 35965

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-E9

<400> 35965

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gtaatccaac cttagtgcga gagtagatct gtgcacttta aagccgaacg tttgtggatc 120  
cagaaagaag aaaattttgt atgtatatat gtgtagatcc aggtgatcgc tattgttagc 180  
ttttgtttac aatggtcgcc acccaaaaaa gttgttaactc gccctttttt tttttttttt 240

tcaacaagca tgcaaacaaa gtgattatgt ctagatcttt acatagcgcg acaacagttc 300  
atgaccaagc aacattacaa gcgtctgata gtgtcactgc ataagcaaac atagtgctaa 360  
caacattatt cacaactc 378

<210> 35966  
<211> 321  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 35966

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atcctgcacg gatgaccatg tacatagggg cgttaantat aaagtttggg ccagcacagc 120  
cagtgggaac atgaagctgg attctgctta ccatgcagcc aaagagaaag aagagcattg 180  
ccctatcttc ttgtttttct cggtaagaac agctcatctc ctttggtttt ttgcttttcc 240  
cttcgaggaa aaaaagagta acagtacata gtgggtggtt gatectttat tagcatgtgc 300  
taaggtggtt ccgattttgg t 321

<210> 35967  
<211> 355  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 35967

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gatggggggg atgtcattga ctgtcctgtg caagtgacta aagatggcat actgatatgc 120  
atgagctctg ttgacctaat ggatgttact actgttgcaa aatcacaatt tgcttcgcaa 180  
gtaactacca tcaacagtct gaaggctggg tctggagtct tcaccttcaa ccttacttgg 240  
gatgatattt ctaagaacct aaagcccatg atatcgaacc caatgagcac ctataatctg 300  
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<210> 35968  
 <211> 366  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-053-Q1-K1-F11  
  
 <400> 35968  
  
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 caccatgggg aagaccctg gtatgggagc tgggcgcaag ctcaagaccc accgcagaaa 180  
 ccagatgtgg gctgacaaag catacaagaa gagccacttg ggcaatgagt ggaaaaaacc 240  
 ttttgetgga tcatctcacg ccaagggcat cgttctggag aagattggta ttgatgccaa 300  
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 gattgc 366

<210> 35969  
 <211> 329  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-053-Q1-K1-F3  
  
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 ttgtcaccct gggctcangc aggttctgcg tcgcaagggt catgaatgag atgtttgatc 240  
 catacgggag tggatatgtt ttattgaccg gtgtggagat cgttcctcat tttgacaatc 300  
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<210> 35970  
 <211> 226  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations

<223> Clone ID: LIB3069-053-Q1-K1-F4

<400> 35970

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tacgcgaaat ccatttcgt gtcatacgca ctgtcctttc gcgttaaagt ataatttttc 180  
caagggtccc ctctctttga cgatcccaga tcacgtccgc ttcctt 226

<210> 35971

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-F5

<400> 35971

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cgaaggaggg ataaggggat ggccgggatc ggaccgatca ggcaggactg ggagccgggtc 180  
gttgtgcgga agaaggcacc caccgccgcc gccagaagg atgagaaggc cgtcaacgcc 240  
gcgcgccg cggtgcgga gatcgatacc atgaagaagt acaacgctgg tacgaacaag 300  
gcggcatcca gcggtacatc cctcaacacc aagcgctctg acgacgacac cgaaaacctc 360  
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<210> 35972

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-F7

<400> 35972

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ggcacattca ggccccgatg gcgacgacgg ctacgaaccg gcgggtgatc ctcaaggagt 120  
acgtggaggg ataccacgc gaggagcaca tggagctgct ccggggcgcc gaggttcccc 180  
tccgcctgac gggcgccgag ccggccgggt ccgtctctgt caggaacctc tacctcttct 240

gcgaccccta catgcgggccc aagatgtcgc gcccgctgcg ggagttctac acggggcgcc 300  
tcgttccggg cgacaccatc acgggctact gcgtcgcgcg cgt 343

<210> 35973  
<211> 216  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-F9

<400> 35973

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gccatatgag tgtgtgtgcg ggacaccaga ttataactca tcatcctact tgacatccaa 120  
atacacttta tacagactcc cctctcacat ttcaaacaat caaaaacat acgggtcccc 180  
ccctaataata ttccaaaat cacgtaccgc ttcata 216

<210> 35974  
<211> 266  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-G1

<400> 35974

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gttaatggcg gtgcaatggc tottgacat cctttgggtg ctacaggtgc acgggtgcgc 120  
agtactcttc tcaatgagat gaagcgccgc ggcaaggatt gccggttcgc agtgatttct 180  
atgtgcatag gttctgggat gggtgccgct gctgtgttcg agcggtgaga cggcgttgat 240  
gagctcacca atgctcgggg aatctc 266

<210> 35975  
<211> 420  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-G10

<400> 35975

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ctttgtgaga ggatcactgt cagtatttgc gttatcaaat tcttcgtggc ttgaagtata 120  
 tacattcage aaatgttctt caccgtgact tgaagcctag caatcttctt ttgaatgcaa 180  
 actgtgacct caagatatgt gattttgggc ttgctcgac cacctcagaa actgatttta 240  
 tgactgaata tgttgtcaca agatgggtata gagcaccaga gcttttgttg aactcctcag 300  
 aatatactgc tgccatcgat gtgtgggtctg tgggctgtat atttatggaa ctgatggacc 360  
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<210> 35976

<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-G11

<400> 35976

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 acgttgaccg gacttcattt cgcgatgacg accttgatga cattagtaat gaaatgactg 180  
 ggatatattc acccgtccta tctatccgta cctgaactaa ta 222

<210> 35977

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-G3

<400> 35977

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 acctgatgga gggaagtccg tcagctcggt cccaaaccaa ggggtgtttct cacagttctt 180  
 tgaggggtctg gattggatga tccgccttc ctgctaccaa gactccaatg gcatccattc 240  
 agttaccgca tcggatagca tctttaatcc gtctgaaggt atacctcctt ccacaatgaa 300  
 cgcggaacgc atggacgcgt tccaaacttc ctgcctttcc gagggtcttc ctaattccat 360  
 ccaagaattc atcagcagtc cagatataaa tacactgaca ttta 404

<210> 35978  
 <211> 411  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-053-Q1-K1-G4  
  
 <400> 35978  
  
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 ggattctctg cgggcctggg gatccattat gtcttcttcc tccgccgtcg ccagcatcag 120  
 gggcgccgct tccccaggc cctcgcgctg cgccaccctc tccagcgctt gcgccggcgc 180  
 ccgtccccgc gcgtctcttg ctggccacac ggactcaatc cttgaggtgc tggcacagga 240  
 cgatatgctg aacgcaaagg agctgttcca atgggagaat ggcttgtcat tcaatgacat 300  
 accggetacg caggggattc gcatacgcat aactgtcag cccactgcct tcttgaagga 360  
 tatagaggag gagctgtgac ccccccttaa cattctagag catatcattt t 411

<210> 35979  
 <211> 298  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-053-Q1-K1-G5  
  
 <400> 35979  
  
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 ttacagctct gcaacaacaa agattaatgt ggctgtcgac agactgccac agttccagtg 180  
 ttgcaacacc aatcttgaat gttgtccaga gcacatgggc acaatacaca ttgggtccga 240  
 aagcatggag gaaattgacg ttgcatacac ggaagcagca gacggcatct ctttcaaa 298

<210> 35980  
 <211> 355  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-053-Q1-K1-G6  
  
 <400> 35980

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gtctcctctc ctctgcgtgg cctcgtcgga tccggcgccg acccaccgcc cctctgctcg 120  
ctccttccgc cggaatcgct gctcctctct gtgctgtcga tttgtgcggc gactgttagt 180  
ttggttcggg cccatccttc tgttgatcaa tgggtgacgg tgaggatata cagccacttg 240  
tgtgtgacaa tggcactgga atgggtcaagg ctggcctttgc tgggtgatgat gcgcccagag 300  
cagtgttccc tagtatagtc ggccgccttc ggcacacggg tgtgatgggt ggaat 355

<210> 35981

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-E7

<400> 35981

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gccggcgatg gcggctccca tgggtgacgc cgaatacctg cgccaggctc acagggcgcg 180  
ccgccacctc cgcgcctca tctccaacaa gggatgcgcc ccgatcatgc tccgcctcgc 240  
atggcatgat gctggaactt atgacctgaa gacaaaaact ggtggtgcaa atggttcgat 300  
tagatatgaa gaagagtaca ctcatggttc aaatgctggg ttaaagattg ctatcgatct 360

<210> 35982

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-G7

<400> 35982

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ggctgagtat atgaagaatg gggctgatga ggagcccag aagtaccagg ctcaactcag 120  
cgagtacatc aagaagggga ttgaggccga tgacatggaa gctctgtaca agaagggtcca 180  
tgctgccatc cgtgctgatc ctagcatggc caagtcaaca aaggcgcaac caaaggagca 240  
caagaggcac aacccaaga agttgacctg tgagcagagg aaggccagac tcgtggaaag 300

gctcaatgcc ctcaattcct cgggtggtgt cgatgatgat gaggatgacg aatgaagtgc 360  
tagtcg 366

<210> 35983  
<211> 218  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-053-Q1-K1-C11

<400> 35983

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agcgcgtcgg cgggtggtgcg cccgtctacc tctccgccgt cctcgagtat ctcgcggcag 120  
aggtgttggg actggcgggc aacgcgggcg gcgacaacaa gaagaaccgc atcgtgccgc 180  
gtcacatnca gtcgccgtg cgcaacgacg aggaactc 218

<210> 35984  
<211> 407  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-C4

<400> 35984

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gcagttatat aacattatgg gcttccagtt ttggcatctt ctattgtgtt aagaaaactt 120  
cattttaact gacaaagtgt catcttacta tttagtttgc taaagggatg ttactcatgg 180  
ttagtccaca atattttaca tttttacata tcttgtagct cttcactttc aggtttctta 240  
aggaactaga cttacaaaag agttgtgtga aacatcaaga ccatcagtgg attaatgttt 300  
ttcccaagtc ttcaacatca ctagaatgct tgaatttttc ctgcttgact ggggaggtga 360  
atgcttgtgc actggaggaa cttgttgcaa ggagtcctaaa tcttaaa 407

<210> 35985  
<211> 322  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-C5

<400> 35985

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acaactcaag ggatgctcga gtggctctag ttacttagca gaaccaaag aggaaggcca 120  
tcaaagatac gagggctttt tctcgccatg tctcggtcgc cacacctccc accccgctgc 180  
ccacccctgg gtcctcagat cactcgaagg gatgacagca tgttcacgca gagctgcagg 240  
tttccatctg gggatacggt ctttagtgag ccaccgtgct ggctcgatga tctccttgca 300  
gattccggga aaagctccaa gc 322

<210> 35986

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-C7

<400> 35986

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agtatgtttc ctgttattga tccacggcaa gtaatctcca ttcaggaaca tgagtatgtt 120  
tattgcctgg caatcgtcaa gagcatgaag ctcaacatta ttggacaaaa tttcatgact 180  
ggctctcgtg ttgtgttcga tcgggaaaag aaaattcttg gatggaagaa atttaattgt 240  
ttctcacctt caacatctga gaactactct ccgcaggaag caaggaaccc agctggtgtt 300  
tcccagttga gaccactgaa caattcatca ccagcagcgt tatatgat 348

<210> 35987

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-C8

<400> 35987

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ttatgtgaac gtggaggtgg tgggcgtgga cacgcgaccg gacatcgaaa gagcagtctc 120  
gtttagggag aagccgagga cgagcatggc gccgcgccg ctgccgacga cgcgagatgg 180



acggaagagc ttggaggcag cgccgtacca cgatgtcctt gacctgaagc agctgctcga 240  
tctggctgac aaggaaggcc ggggtggccgt gtatgggaac aaaaggaact ccgacaccag 300  
cagcgtgagc agcgtcagta gcagcagcag cggcggcaca accagcatca gcagcgctag 360  
caccatcggg ggcgcgagcc 380

<210> 35988  
<211> 322  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-C9

<400> 35988

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tttttttaac atgttagtga gccaccccaa ctcatctcca ttcattaaca tattattttt 120  
attttctttc aatcttcaat atcattaatc tcaacaaaaa aaacaaaatt tcataactat 180  
tcttctttta aaatcccacc gttaaaccaa aattattcaa cccacacatt taatcaaaaa 240  
tcaccttcat catctaaaaa ctactttaaa caccaaacaa cgaaccccc taaaaattcc 300  
caaatgacac cactgaacaa tt 322

<210> 35989  
<211> 363  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-D1

<400> 35989

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cattataaat caatgggagc aaaggaaagg aaaggaaagg aaaggagaa aatttcatat 120  
agcaattgtt tcgcgtatag gagggagaac aaaggtcgcg tctcgaaagt tcttgcttg 180  
ttgggaaggg atggcgctcg aggtggagga cgacgcggcg gtgccggcg cgccgctggt 240  
cgccaatggt gcagccgacg tccgccggag gagggatcag gcgaaggcga ttttgtccaa 300  
gcaggccgctc aagatcgcca ccaatgccga gcagcacgag cgcttcatct ttaaggtcac 360  
aca 363

<210> 35990  
 <211> 286  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-053-Q1-K1-D2  
  
 <400> 35990  
  
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 gccccggcga tcggccgcgg ctctcggcc ggtgcgggcg ggtgcgcggc gcatcatccg 180  
 ccgtcgttct cgagccggtg cgcggggctg gtgaatgagc atcgggcgcg cttctacatc 240  
 atgcgcgcgt gcgtgaccat gctcgtctgc tggaaggacc gctcgt 286

<210> 35991  
 <211> 417  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-053-Q1-K1-D3  
  
 <400> 35991  
  
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 cgtatgtgac aatggcactg gaatgggtcaa ggccggtttc gctggtgatg atgcgccaag 240  
 agctgtcttc ccagcattg tgggaagacc acgccacacc ggtgtcatgg tcggcatggg 300  
 ccaaaaggat gcctacgtag gtgatgaggc tcaagccaag agaggcatcc tgacactgaa 360  
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<210> 35992  
 <211> 364  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-053-Q1-K1-D5  
  
 <400> 35992

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cgccaccaat ggccactgcc gaggtccaga ccccgaccgt cgtggcggcc gaggaagcgc 180  
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aggcagccgc cgaggcggag gccgcggctc ctgctggtgc cgaggagccc gtcgcggccg 360  
aacc 364

<210> 35993

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-D7

<400> 35993

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aagctaagag atggcggatc ggcagtactc ggcgtggacg acttccgctg ctcgctcatc 120  
ggtcttctcc tgtgcgctca tggtctttgt tagttttgtg gctgccggac gacccatggt 180  
gtcgcgcgac gccatcgtct ttacagtggc gaacaagtgc ccgttcccgg tgtggccggc 240  
gtccgcccct aacaccggcc acccggtgct cgctggcggg ggcttctatc gtcccgcagg 300  
caagtcgagg cgcgtcgt 318

<210> 35994

<211> 356

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 35994

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ctcattgtcg caggatgccg gcgcncctt agcaccacca gcccaggac gaagaggacg 120  
acgataccgc aggcgttgct aagctcatca gcgccgaggg cttcgaattc gttgctgaca 180

ggaaggccga catggtctcc aacaccctcc gcaacatgct cacatcccca ggcgggttct 240  
 ctgagacgcg ccagggcgag gtccgcttcc cagagatccc caccaacatc ctcgagaaga 300  
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<210> 35995

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-D9

<400> 35995

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 atgtatacaa atgtacgcta attgctcatt atatcacatt tcttggtata ccacccatgg 180  
 cgctagecaa caccatctca tataacctct cgaacatgct cccattccca gtttggttctt 240  
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<210> 35996

<211> 341

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-053-Q1-K1-E1

<400> 35996

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 agaaagatag tgccttagtc ttggtagatg ctaaaaatgc tgaggttga aagttgaggg 180  
 atgaactgaa gaagctcaac agttccatgg ctgcgctccg tgctctctat gatgatcttg 240  
 atggaaagtc ttctttctc cacgatgaga aagtttcggt tctcaaagaa cttgagcagg 300  
 agaaagctga agcagaaaag ctgaagtcca aaatccagga g 341

<210> 35997

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-E11

<400> 35997

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cgcgggcgct cctgtgtgga acgacaacga ggcgctgact gtggggcctc gcggtcccat 180  
cctgctggag gactaccacc tgatcgagaa ggtggcgacac ttcgcgcgcg agcgcacccc 240  
ggagcgcggtg gtgcacgcgc gcggggcctc cgccaagggc ttcttcgagt gcacccacga 300  
cgtgacgtcg ctgacgtgcg ccgacttcct gcgcgcgccg ggcgtgcgga cgcccgatgat 360  
cgtgcgcttc tcgacggtga tccacgagcg ggggtccccg gag 403

<210> 35998

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-E4

<400> 35998

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ctcctttcat ctatcttctg cttgtataaa atgaaaatcg atcctttcat ctccccgaca 120  
cagaaagctg ccgccttggg gcaatgtggt gtgaactgct gatccagatt gtgactctta 180  
tctgaagagg ctgagccaaa gatctgcccc ctcgtgtaaa tacctgaggg ggctagatgg 240  
gaattttttg ctgtatatta ggacccatct acaaccttt 279

<210> 35999

<211> 324

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-053-Q1-K1-C1

<400> 35999

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atattttttct tttcatcctc cattatttcct actattaatt ccaactaaat ctccctctcc 180  
ccctatgaag aattcaacat ttataatttg cacctttttt aatcttataa aaaaaatatac 240  
aagcaatagt attaacgcaa agataatcat gtttaaatac acaagaaaat ttattactct 300  
atacaattta attcttctcc catc 324

<210> 36000

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-H10

<400> 36000

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aggtactccc agagctcttc atctccattt ccacggctca ggtaatccat ggattccatt 180  
tccacgctgg cctctattgc ttcgttctcc tccacagaaa ggatgcaccg ccagaaatgg 240  
agtcccccca gaactggatg accaagctct tgattggccc tcgccggaaa tggagtcccc 300  
ccaggcgcaa ccaaccttat ccctctcaac gagatagttg tcgacatcaa tggaacat 358

<210> 36001

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-H11

<400> 36001

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gccttattca ttggcctggg cccgtccctc ccacccactt acaggtgggc cctaatcgtg 180  
gaatcggcat ctccagctgg tcgacctgca gcatattcac acatccgaca caccactttt 240  
gtttgcccggt tgccgatccg ttccgtttca gttgcccggt tgagcgaggg gaacggtacg 300  
ccgccggcgc cgctgctgcg acgcgtgctc gcgccgccac ccgacgacga cctggtccga 360  
cttcgcgttc gcgccgtcgc ggcagccgc ttcacggcg ctggaagccc acca 414

<210> 36002  
 <211> 338  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-052-Q1-K1-H12  
  
 <400> 36002  
  
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 gaaggaaaag cattcgcaga gagggagtca ttgtatttca tggagacctc tgcactcgag 120  
 tcgactaacg ttgaaaatgc attcgcagag gtcttaactc agatctaccg tattgtgagc 180  
 aagagagcag ttgaagcagg cgaagatgca gcatctgggc ctggcaaggg cgagaagatt 240  
 aacataaagg atgatgtttc ggcggtgaag aagggtggct gctgctctag ctgagctgcc 300  
 ctgctgtatt ttttgaagtt gtggtgatgt agcttatg 338

<210> 36003  
 <211> 352  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-052-Q1-K1-H2  
  
 <400> 36003  
  
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 gaagcttagt agtggatgcg ggaggcggca gccatggcct tgatggagaa gctcaagatc 120  
 tttgtcgtaa aggagccctt agtcgcggcc tectgcctca tcgctggatt cggctctctt 180  
 cttgcatgag ttgtgcggcc aatcctggaa gcatggtaga ccgtgtaaca agtttcttct 240  
 tctcttctaa atgatgtggg tgcattgtgc accggcgaga aaaagtagtg aacttgcatt 300  
 gttttctcat gccaatggtg cccacatctt tcttccccgt ggtttttctg gc 352

<210> 36004  
 <211> 372  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-052-Q1-K1-H3  
  
 <400> 36004

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gaagggcaga gcacctttgc gcagaacggg cagcagccca tgaggagcct ctcgatatggc 120  
cctcatgctt ccccgatatc gcagtcgcct atgcttgaca gctagctgca tagagtcatt 180  
gtgcttgtct gtcagccata acatattttc aagactgaag tttggaccat aactggagta 240  
tgaactcatc catccaacaa gcatctgagc tatctattat tgtggatgaa gcagcaacat 300  
tgattcgaat ttgcatatca tctgcgagtg aatttttttc tctcttgta ttgcttacat 360  
tttagctgga ct 372

<210> 36005  
<211> 124  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-052-Q1-K1-H6  
<400> 36005

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cgtgtatgct gtcataaggt agctggacgc caaccagctc gccgaggcgg acgagttcga 120  
ggac 124

<210> 36006  
<211> 325  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-052-Q1-K1-H8  
<400> 36006

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ggttaccttc accatgactg cagcccacga ataattcacc gggacgtaaa atcaaagaat 120  
atactcctcg acaaagatta ggaagcccat cttacagact atagcatcgc taagagctta 180  
tgtgagtcga agactttcac gtctacctac gtcgtgtgca ctattggta cattgatccc 240  
gaatacgccc gcaccttccg gcttaacgag aagtctgatg tctacagcta cggcatcggt 300  
ctgctggagc tgctgaccgg gaaga 325

<210> 36007



<211> 386  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-052-Q1-K1-H9  
  
 <400> 36007  
  
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 ctgacaggat caatggcgag acaccagaag agattcgcaa gaccttcaat atcaagaatg 120  
 acttcacccc tgaggaggaa gaggagatcc gcagggagaa ccagtgggcc ttcgagtaag 180  
 gaggtgctgg atctattgat gcctaagttt ggtggtgtct actactatgt ctactttatg 240  
 ttgtcctaata ggttgtaagt attttgggag tcactttgct tgccaatgtc tcgcgtaaga 300  
 cttatgtggt caatggtcgg ttattaactt attaccatga aagcacttcg tctgctgccc 360  
 taagagggtt agtcccatth gcatta 386

<210> 36008  
 <211> 364  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-053-Q1-K1-A5  
  
 <400> 36008  
  
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 ggggagggcg tgcacgcagg tcacgcggcg atggacatat gcgatgtttg agcagggcgt 120  
 ggcagatttc tgctggcatg cgaggggaagt agtgtcgtca gggatggggc tctgggggtg 180  
 gccgtggggg cgacgtgggc cgtcgggctt cggctccgcg tccaccgccg aggaggtcac 240  
 cgccggcgtc gacgcaagca acatcactgc catcgtcaca ggagcgacga atggcattgg 300  
 aaaagagaca gccagagttc tagcactgag gggagccaag gtaatcatal cagctaggac 360  
 actg 364

<210> 36009  
 <211> 103  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-053-Q1-K1-A6

<400> 36009  
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 aaaaaaaaaa aaaaaagaag tttttaaaaa aaaagggggc ccc 103

<210> 36010  
 <211> 359  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-053-Q1-K1-A9

<400> 36010  
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 agggcagacc agattagatc agcagttgag aacagcactt cagattatga caaggaaaag 180  
 ctccaggaac ggttggcaaa gctctctgga ggtgttgctg ttctgaagat tggaggagcc 240  
 accgaagcag aagttggtga gaagaaggat agagtgcag atgcactgaa tgctactaaa 300  
 gctgctgttg aagaaggcat tgtaccacgt ggtggtgttg ctcttctcct atgcattga 359

<210> 36011  
 <211> 293  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-B10

<400> 36011  
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 atcatatctg ctgcagaatt ggcaaagtct cacaagttta tcagttcggc gctgcagggg 120  
 tatgacacag tggttggaga gcgtggagcc cagttgtcaa gagggcagaa gcagcgagtg 180  
 gcgatcgccc gtgcaattgt gaaggaccct aggatcctgc ttctggacga agcgactagt 240  
 gcgctggatg ctgaatccga acggatcgct caggacgcac tggacagggt gat 293

<210> 36012  
 <211> 373  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-053-Q1-K1-B4

<400> 36012

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gccattcacc ccacttgccg ctagcanatc tagttaaatt tgtgatattt tcgaacttgt 120  
caattgttgg gatgaatgtg agcttgatgt ggaactctgt gggcttttat cagatagcaa 180  
agctgtgcat gataacctga tcatgtcttc tggagggtgt ctttgatcat gtgcattatt 240  
cccgggacac aaagctgagc ataatggctg tgcttatagg agttgcagtc tgcacagtta 300  
ctgatgtcag tgtgaatgca agaggctcaa tcgccgctgt tatagctgtt tggagcacag 360  
ctttgcaaca ata 373

<210> 36013  
<211> 354  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-B5

<400> 36013

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cgggcctatg tgctggagca cccgtacaat ttctgcatct gctggcggag gagcttattg 120  
taatgggcaa aagattcatg tcagtcagac agacaagggtg gaacaatcac ttctcgtcac 180  
aggttttgga tatgaacacg atgatgcctg gacgaccaat atgaatctgt tcaaggaatt 240  
tactgacatt agcaggggag tgcgaaggct agggctctgct gctgctgaca tgtcccat 300  
tggacttggt attacagaag cttactggga ataccgactt aagccatggg atat 354

<210> 36014  
<211> 378  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-B6

<400> 36014

aacaacttat ggatctttgc gccaccttt tggaaaacat cgtctgaaga ttgtagaagg 60

gatctctgtg ctgcttacia gtggaaatga aactgctgaa aaagagctaa aaaaggcgtc 120  
agcaataaaa cgccccaatg gtttgggtctt tgaagattcc tataacaacc ttttgccccc 180  
acatgggtggg aatataaatg gtggctggcc ggaggggaaa aaaacctgaa gtggtgagca 240  
tgtccttcat gaatgtgata atgtgggtaa aattcttgcc tcaaaaaggt tttcatcctt 300  
gtcgactgag tctaattgggc ctactgggtcc ctctgaaggg aaaaccctc caagaattgg 360  
aatgggtggt cacatgac 378

<210> 36015  
<211> 365  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-053-Q1-K1-B7

<400> 36015  
cggacgcgtg ggcggacgcg tgggcggtct cgtgggttca acgccaggga agccaccggg 60  
ggcagtaacg ccgacgcgtg cagcagcaag cgcggtgtgg ccgggtcaca gccggcggca 120  
agccagacca aggtgagcgc gcagaaggag gaggagatgc tgaagctgtt cgagcagagg 180  
aagaaggacc tggagaagct gctggacatc tacgagcagc gcctggagga ggccacgttc 240  
ctggccggcg acaacttcac catcgccgac ctgtcgcacc tgccctacgc ggaccacctc 300  
gtcttcgacc cgcgctcccg ccgcatgttc gagtcccgca agaacgtcag caggtggtgg 360  
cacga 365

<210> 36016  
<211> 366  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-053-Q1-K1-B8

<400> 36016  
cctgttcctt gttcgaatcc aagtttcttt cccaaaccgc caacccccca cccaaggga 60  
ngaaccctac ccgtgagaag cgccgccccca caaccccgga cgtggtggca agcgaccgat 120  
ccggatccat catcccaagc ttcctttctg tctcctcttc atccatctcc acaaggataa 180  
tcaaagaaag aaggccatgg ttttgttcga acttgaccgc gacatcatcc gatggggtct 240

tcaccatctc ctccccgctc cggctggata ctctctcat tgcgcaccc aaaccacccc 300  
taccacacct tgtacagctt ttgctcgccc tcctcatcag cccatcggag acatgggtac 360  
ctcaag 366

<210> 36017  
<211> 321  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-052-Q1-K1-H1  
<400> 36017

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cgacggcgccc cttagcatcc tttgtgtgat actgttcttg cactgccagg ccgtgcccgt 120  
tcccactggg gatggcgagt atctcaacta gaccttaccg acaacagagt gcgaaagcaa 180  
gtgaggggtgc gcgcacgtca gaaaagagcc aaggagaaat caaatggccc aaaaaagaac 240  
aagaatatat ctgccatcgc cttttgaacc ttgccctacg accaaaacct gacgcctact 300  
ctctctgttc atgctctttc t 321

<210> 36018  
<211> 83  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-052-Q1-K1-E3  
<400> 36018

gaaaaaaaaa aaaaaaaaaat taaaaaatat aaaaaataaa aaataaaaaa aggaaaaaag 60  
aggaaaaaaa aaaagaggag aag 83

<210> 36019  
<211> 391  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-052-Q1-K1-E5  
<400> 36019

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 gcgaaagcaa agcgggatgt tggggatgca gaatacaaga gcatgctgtg tgtggagcct 120  
 gcagatgttg aaaggccgat tactgtgaaa cctgaggatt agtggaaaagg aaggcttgtg 180  
 cttgtagatg ggtcatcgag ttactgtatg gtacagttag attcattgaa tgttcttcag 240  
 gggtgaaaat cctcactttc tgcattctgt acagaagttc attgccctta atatttgatg 300  
 ctgggctggc gtcaacgccg catgttcctt ttgccattcc cacccttat atttttggta 360  
 ctttttggat ctagaatttg agttataggt t 391

<210> 36020  
 <211> 110  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-E6

<400> 36020

aaagaaaaaa aaaaaaaaaa aaaaaaaaaa ttaaaaaaga ggaaagaaaa aagagaaaaa 60  
 gggagaaaaa aaagaaagga caaggaaaag gacgaaaaaa aaaaaggaaa 110

<210> 36021  
 <211> 425  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-E7

<400> 36021

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 acgagcatgc aacactagta ctgcaacaaa gccctatgtt gaagattatg aggggaatgt 180  
 ggggaacttt gcaatctaata agtgctactg caaaaatggt tctacaggga aaattaagga 240  
 cagagtccat caagaatgcg atgaatctgg ttaagaaatg tgggtcacca gaaggaagtg 300  
 ttgagcatta catggctaca aaattgttca tgaaagctga aaactgagat atgttcttta 360  
 cttttgaatc aaatgaagga aggttatctt ggttaaagag aaattgtcag gactatgggt 420  
 tgaat 425

<210> 36022  
 <211> 409  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-052-Q1-K1-E8  
  
 <400> 36022  
  
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 gctgggtgaac ctctgtggtcg tctgcggcga ccatggcaac ccttccaagg acaaggagga 120  
 gcaggccgag ttcaagaaga tggttgacct catcgagcag tacaacctga acgggcacat 180  
 ccgatggatc tccgcccaga tgaaccgcgt cctgaacggc gagctgtacc gctacatctg 240  
 cgacaccaag ggcgcccttcg tgcagcctgc tttctacgag gctttcgggc tgacgggtggg 300  
 tgaggccatg acctgcgggc tgcccacggt tgccacagcc tacggcggtc cggccgagat 360  
 catcgtgcac ggcggtgtctg gctaccacat cgacccttac caaggcgac 409

<210> 36023  
 <211> 355  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-052-Q1-K1-F1  
  
 <400> 36023  
  
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 atgagtaggg tgcagtctga gtgtggctag gatgccatct cccagattgt tggggaatcc 120  
 aaggagaaga ataggaagat tactgatatc tgaggaaactt tatattgtgc tgaacaatta 180  
 tgatccacag aagggaatg cgtgtcagtg gcgctctgatt atttgcccca tattccttcg 240  
 tccaagatga aagtgtgcat gcttgggtgat gccagcatg ttgaggaggc cgagaagatg 300  
 ggacttgact acatggatgt tgaggctctc aagaaaatga acaagaacta gaagc 355

<210> 36024  
 <211> 223  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-052-Q1-K1-F12

<400> 36024

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acagaggagg ttgaggctca tatctcacac ctatcaacaa aattttactt ttcccgtttt 120  
atatttttct aattattgcc acccctctat tatggtatat caaatagtag cagtttagcaa 180  
accttccatt ccaacataat atcttcagaa atattacacc aaa 223

<210> 36025

<211> 145

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-052-Q1-K1-F2

<400> 36025

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tatcagttag ttttggggag tgacataata tggatgaatgt ggatagagaa aagaaggaaa 120  
caattgaaac caatcctagg gaaat 145

<210> 36026

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-F5

<400> 36026

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ttgggggtga tggatgaagc gtgcgtgttg ctgaactcgg tggccagcgt gtgctggagc 120  
gggttcacga tcgactccag cgacctcagc gggtagtagg agtggagcac gtggaagcgg 180  
agcaccacgg ccttgctgtc gttgatgagc gacttgagcc gtgcccccat cgtgaggccc 240  
gcgaaggcgt cgtcgggtcg cgcgaaacac gtgatcccg ccccgcgctc gtcgtcctcg 300  
aactcggccg tcacgcccga cgctgcagc atggacgccg tcacgttgaa agcgcgcgcg 360  
tcggcgagga cgcggtgat gttcacg 387

<210> 36027



<211> 417  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-F6

<400> 36027

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gggatgggta tcgacctcgt tgccgggtggg aggaacaaga agaccaagcg cacagcgccg 120  
aagtccgacg atgtttatct caagctcctt gtcaagctct accgtttctt ggtcaggagg 180  
accaagagca acttcagtgc tgtgattctc aataggctct tcatgagcaa aaccaatcgc 240  
ccaccaatct ccatgcgccg ccttgtcaag ttcattggaag gaaaggagaa gaacattgct 300  
gtgattgttg gcacagtcac agatgacaag aggatccaag aggttccagc aatgaaagtt 360  
actgccctga ggttcaccga gacggcaagg gccaggattg tcaatgctgg tggggga 417

<210> 36028  
<211> 432  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-F7

<400> 36028

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tttggtgtgc aagcagcaca gcaagggatg gtgtacatag acgaggttga taagatcaca 120  
aaaaaggctg aaagtcttaa catcatcaga gacgtatctg gtgaaggtgt tcagcaggca 180  
ttgctgaaaa tgctggaagg cacgatagtc aacgttcctg aaaaaggagc aaggaagcat 240  
cctcgtggtg ataataataca gatagatacc aaagatattc tttttatatg tgggtggcgt 300  
ttcgtggatt tggagaaaac tatatcggag agacggcagg attcttctat tggcttcggc 360  
gcaccagttc gtgcaaacat gagggtcggt ggcactttaa gtgctcaagt gacatcgtcc 420  
ttggtggaat cg 432

<210> 36029  
<211> 256  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-G1

<400> 36029

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ggcagtaagg ctggatgatg agttgaggag tgaggatgtg tcatgttggg gtgtgcaccg 120  
agtataatgg aattgtctag tgttttttga ctagttcgaa tgatgagtgc ttagctgtgt 180  
gatccgactc agagtccctc gtgctgactc tgggtcatgg atgggtccatt ttatcttgtg 240  
ggattatcag ccttta 256

<210> 36030

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-G10

<400> 36030

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tcacaaaatc cattgcaaga tcatacttgt ggctttcttg caagttgcgc aattgttgcc 180  
tcaagcttgc tgcctccctt tgccagagct atcggtaaaa caggaagtac tgtcagtttc 240  
cgagctacaa acaagctata agtttagaaa aataatttag aaatgtacaa caaagtctag 300  
taatacattg ctaaagataa atcaatactc aataagttcc tcatgctttg gatttgggga 360  
taacatacct gttttattta catgctaata tttggaccaa caaaaaatac cttatgaaca 420  
gccatttgag 430

<210> 36031

<211> 337

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-052-Q1-K1-G12

<400> 36031

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gtttgttatc atagctggtc tagcctgcat ccacctgttg tcaaaatctt tcaaccacc 120

gaaagcaagc atcgcccacg attacattca taggcaaaac tgcccaatcc gccatthttgt 180  
gagccatata attttcttttt ttataacaag gcgtcagcag gagagcaact atattttatat 240  
acatcttttcc tgatctgtcc ctgtccggen acaagaacac caccaataag gatctcatca 300  
ctacgagtaa gcggcacgac cgaattatth aactact 337

<210> 36032

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-G2

<400> 36032

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acagttggcc aggaactgct ggaacgctga actcgctcct tttgccccaa tcttcttcgg 120  
caaaccacat cctctggcct ctgacaggctc acaagtccca tgggtgccga tgatgaagag 180  
cccgccgacg atctgctgag catatagcta tgatatgtca agagcgtaag agcgcaagcg 240  
tgcacggcg tgaactacgg ctaggtggcg ggcaacctgc cgtcgacgga cgagacggca 300  
aggctgctca agtcgacgctc catt 324

<210> 36033

<211> 142

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-052-Q1-K1-G3

<400> 36033

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gtctgtgtgg gatanagctc ataagcttgg gaccaaactc agcaggagat ccgcctcatg 120  
aaactggaac gatggttcat ga 142

<210> 36034

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-G6

<400> 36034

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tgtggaggcc agcaggcaga ctgagctggt caagaaagtg tacgactcca tcatggaacg 120  
taaccctagg tggaaccagc tgccggttcc aaaggaggcg ctgtacccat ggtactacag 180  
gtctaccgta ctgcgcaagc ctacagatct ggagggcata gccatgacgc cgtctgtaag 240  
cccaccact gggactgagg cctactgcct gctcaacctt ggggacagca tcaccacgga 300  
ccacatgtcc tactcgggga agatccccga gggcacacct gcggccaagt atctgctcga 360  
gtatggggtg gagcccaaga acttttagctc ctatgg 396

<210> 36035

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-G8

<400> 36035

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ggtaggtttt tttttttttt tggaaaccca acccccata aatgggtttt tattggctat 120  
atatgatcag gggcttttga aagacgaggg tgccatgaat attttttcta caatataagc 180  
tgagtcttaa aagagtcaaa tgagatttaa tcagacttaa gtttatgaga tgcgctttcg 240  
gtaattagga gccccacagg ggtggggcag ctttaaaatt tttccatgag gccccaaaac 300  
attgtccaat caataaccg agtcatagga tagctcctga aaaagaagtt tggggtcacc 360  
atcgaaaagg tatatttttc ccagtttaac aattttgggg gggcttaaa 409

<210> 36036

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-G9

<400> 36036

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gaggggctcga tccggggggc atggcgctgg agtgggtggt gctgggctac gcggcgggcg 120  
 cggaggcgat catgctgctg ctgctgacgc tgccggggct cgacggcctg cgccggggca 180  
 tgatctccgt ggtgctggagc gcgctgaagc ccatgatgtc ggtgggtgcc ttctgcctct 240  
 tcctgctcat ggacatctac tggaagtacg agacgcgccc cacctgacgac gacgagcacg 300  
 cctgcacccc ctccgagcac cttcgtcacc agaagtccat catgaagtcg cagcggaacg 360  
 cgctcctcat cgccgcgcg ctgcttctct actggat 397

<210> 36037

<211> 130

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-C2

<400> 36037

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 tggatgatca cggttgtgct catgcgtgtg gaggtgccga tcccgtcgtc gttgaaaggc 120  
 gaggtgctca 130

<210> 36038

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-C3

<400> 36038

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 ggcattccagg gattgcttat tggctattat ttgcacgcaa aggaaaaaaaa agatgttatg 120  
 ttttatatct taggccagac tgctgtatct acttatttgt gactgctgtg tgtgcatgga 180  
 tttatagtga atctagatta ttgggcttgt gctttgttca tgccgctgct gtctgcccac 240  
 ttttctattc agacatgaaa ttctttgttg ggagcttgat aagctgcatg ataagaagcc 300  
 ctttttaagt attgactagt t 321

<210> 36039

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-C6

<400> 36039

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ggtcaccaga agcgaaggcg gaggcggagg agcggaggta ggagatctcg agcaagcccg 120

aggcagagga gatgaagacg ttcgacccgt ggccggtctt gttccggcgg gagtggaagc 180

gcaactggcc cttcctcacg ggtttcgcca tcaccggatt catcatcacg aagatgacgg 240

ccaacttcac cgaggaggat ctcaagaact ctaagtctgt ccaggaacac aagaagaagc 300

actgacgaac caggtgaagg agttgtcaga aacgcatgtt tggccagcca gttctgttat 360

gcttttgaat gaaaaattta gacccttctt tctcgtttcc ttaatcgaaa tgcttgcaact 420

c 421

<210> 36040

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-C8

<400> 36040

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tcgggagcgc ccatctgctc cagcagcagc tgccggcccg ccgccgccag tgtgagcttg 120

atcccgccag ctgcctgat cgcagttgcc atccgctggg cgtagtcgac agcgtcccaa 180

aagaggggtgc tgctgctgac gactgctagg ggtgtgtggag tcgcgccggt gaggtcgagc 240

gggatcgaga cgacgtcgac ctcggtggga gctgaagccg tcaccgggca ggtcacggag 300

gtcaacaagg acaccttctg gcccatcgtc gaggcgcgtc gcgacaaggt cgctcgctctt 360

gacatgtaca ccgaatggtg cggg 384

<210> 36041

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-D1

<400> 36041

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ggccagtatc aggggtatact tttattggcg ttactggaca accctaactc tgacagtgag 120

cctatcttcg atgtttctgt tgagggttct ctgttcagct attttctgct gggcatgac 180

agcgacgatg agaagacatt tgcgagaagc tttagggttt agtcatgact taagcttata 240

agtttgctta catagtacag ggcattggta tccatcgaat ctttctattg aagttctaca 300

aatagatgac gatgcctata acattgggtcc accacgggaa aaaggacag tgcttaaagc 360

<210> 36042

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-D11

<400> 36042

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aaagcattgg agacatgact tttgactgga gacaggagga aagagagatg ctaagacata 120

aggtaccgtt gactggtctg aagacaccat ttcgcgatgg atatgttaga gatttagccg 180

aggaagttct aaaactggcc aagaatggat tggaaagaag aggatacaag gaggtcgggt 240

tccttagaga gggtgacgaa gtggtgagga caggagtgc acctgccgag agacttctgc 300

atctgtacga gacgaagtgg caacgcaacg tcgaccatgt tttcgagcac ttgctatact 360

gacgttgtag atgtacccta gtacaaaaat ctcattcttg attcattcaa cgccttgagt 420

gggagggcac aggaacacat ctttt 445

<210> 36043

<211> 350

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-052-Q1-K1-D12

<400> 36043

ggcgttcagg gtgttcgaca aggaccagat ttgcttcatt tttgccgcgg agtccgccca 60

ggtgatgacc gacctaggcg agaagctgac cgacgaggag gtcgacnaga tgatccgcga 120

ggccgacggt gatggcgatg gccagatcaa ctacgaggag ttcgtcaagg tcatgatggc 180  
 caagtgagta aagcctgcgg taatggtata gtaaccccg cgggaaggag gaaaccgtgc 240  
 gttgcatatt agtaaggcaa tgcaatgcag ctcttgtttc cttcttcccg tgaagaaacc 300  
 gtactagctg tagctgctga acgtttgagt ccctctgctg ccacccttat 350

<210> 36044  
 <211> 327  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-D2

<400> 36044

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 ttggctccac gcgacagttg gaatttggat catcgtgacc tccttgggtg ctttcttcat 120  
 cctagccagc tccatcgtgt gccgtctctg cagtaggcct tgaagagcgt atgcaaagtg 180  
 cagtcgagca tggacgcaa gaaaggcatg ttaagctgta agtcgggctg caagaaccgg 240  
 tgatgagagg gacaaccaa gaaggggacg ccagcaacga ggagtgaac tgggccaagg 300  
 gaaagggggt ctacgacaac gtgttcc 327

<210> 36045  
 <211> 373  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-052-Q1-K1-D3

<400> 36045

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 gagaaagggg aaaggaagga tgggaggcgg tcgtcgggcg agatgagcga ctcttctgc 120  
 cccgactgca agaagcatat ggaggtggcg ttcgaccact cggcgggtga cattggtgtg 180  
 caccgagtgc ggtctcgttc tcgaggcgca ctccgtctgc tagaccttcg agtgctgcac 240  
 cttcgctaac gagtccaacg acaacgaccc cgttcgtgtc ggtggcccca ccaaccgct 300  
 cctcaccgat ggcggcctct tcaccgtcat cgccaagccc aacggtgcgc anggcgactt 360



cctatccttc ttc

373

<210> 36046

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-D5

<400> 36046

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taggtctttg ttgagatcct gcttctcttg ttccttgctt ttgagatcaa agagctgac 180

gagtagtgtc tgattctttc ttgacctgat atgcttcagg gataacctga tctggttctc 240

cagctgctcg agctccttca tgctgagtgg gccagatct tcgccaagga tgtttctttg 300

tgtagtctgg agaaaatcaa ctctggctct caacttcaag tagtcttcac tctccagtgg 360

agcttttact tctgtgtgc tggaaattgga gctgcggtat ctctcgagtg ttttgta 417

<210> 36047

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-D6

<400> 36047

atgcgcccac gcgtccgcac ggtcacatcc ctcttttgca cgatgccaga cccggacgtc 60

gtgtggggta atacgtgat ctcaggctac tgccagcgcg gcatgttccg gaactcgatg 120

ggccagtcta tggagatgtc tcaccgtggt gttgccctcg acaggacgac tctcgctgtc 180

ctgctcaagg catgctatga cttggacgac actgacactt ggtgtccaga tccatgcgct 240

agcgggtgaag acgggcctgg agacggatgt cggggccggg agcgtctctg tcgacatgta 300

tggcaagtgc aggagcttgg atgacgcgct gcgcttcttt catgggaagg gtgagaggaa 360

ttcgggctcg tggggtgcgg cgatcgct 388

<210> 36048

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-D7

<400> 36048

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gaacggcacc ttctcccttc gcctgtgata atgtcgtctt gctgcggcgg caagtgcggg 120

tgcggtcca gctgctcctg cggcagcgga tgcaacggct gcggtatgta ccctgacgtg 180

gagaccgtcg tcaccagcag cgtcaagacc acggtcctcg ccgcgccgac caccaaggcc 240

agcgccggcg gcttcgaggc ggccaccgag ggcggcggct gcgactgcaa cacctgcaag 300

tgcggcacca gctgcggctg ctctgtctgc agctgcaact gagccggccc ggctcggcga 360

tggcgacga gagtcgagag gacgacgacg aggaggcgta taataaatat aatagcggcg 420

<210> 36049

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-D8

<400> 36049

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aaattctggg gtgaagtttt ttaggctacg agcaggcgtc aaaggaatt ctgtgggcct 120

accgtcaaca gactggtgaa gaggatgctc atcttactcc gttcttgac cttgtatctg 180

gagcatgtgc tgctatcata tttatgtctg ctacttacc gatggatatg gttaggggaa 240

ggatcactgt tcagacagac aaatctccct accagtaccg tggatatgtt catgcactgg 300

gtacagtcta ccgtgaagaa ggctttcgtg ctctatacaa aggggtggctt tcatctgtaa 360

tccgagttgg tccatatggt ggtctcaact tcgctggata tgagtcctc aaagacttgc 420

<210> 36050

<211> 297

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-052-Q1-K1-E10

<400> 36050

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 tccccgggeat cncgggctcg tggacctggg ccacgtcaaa ctcgggcacg agtacaagct 120  
 cgtcgtcacc acctactcag gtgcgggagcg ggtgatgaaa atggaacagc tgctagctga 180  
 tgagtcagtg aactagctt gctagctaac gaacgtacac gcacgctcgc cgtgcaactg 240  
 taggtctgta ccggtaccgt gtggggcgaca tgctgcgcgt ggccgggttc aagaacc 297

<210> 36051

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-052-Q1-K1-C11

<400> 36051

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 gctgccgggg ccacatagat gggggggttg gggaagactc ataanaccaa tgcgtatttc 120  
 aaacgtttcc aagtgaaatt caagagaagg cgggctggca agacagacta cagggccagg 180  
 ataaggctga ttaaccaaga caaaaacaag tacaacacac ccaaatacag atttgttgtg 240  
 cgatttacca acaaggacat cactgccccaa atcatatctg ctagtatagc gggtgatatg 300  
 gttcttgctt ctgcctactc gcatgagttg ccacgatatg gtcttgaagt tgggtctgacc 360  
 aactatgcag ctgtctactg cactggcctt ctgttggtc tccgtgtgct caagaatcgt 420  
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<210> 36052

<211> 381

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-052-Q1-K1-E12

<400> 36052

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 gaggagcgtg ggcaccctcg gcgaggcgga tctgaagggg aagaaggtgt tcgtgcgcgc 180

cgacctcaac gtcccgtctg acgatgccc gaagatcacc gacgacaccc gcatccgcgc 240  
ctccgtcccc accatcaagt tcctcctcga gaagggcgcc aaggtcatcc tcgccagcca 300  
cctgggtcgt ccaaaagggtg tcaccccaaa gtacagcttg gagcctcttg tccacgcttg 360  
ctgagctctt ggagtgagtc g 381

<210> 36053  
<211> 461  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-051-Q1-K1-H8  
  
<400> 36053

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gtgcaatata atgggcctgc tgctcatcca ggacaacagc gacaaggagc tcatccgctt 120  
cgccttcggc cccgaccacc tcctccaagc cttcgtctcc gccgcgcgcg ccgacctcgt 180  
cgccaagccc gcgttcccg cgtcgaccgt gctgggccc ctcaccaga cctggggacc 240  
gacgtcgac ccgagcccta ccgccggctc cgaccacca caccaggccc acttcgacga 300  
cgacctcgcg ctcggtctacg acttcgacgg cgccggcgcc ggcgctgacg cgttcttccc 360  
cgacgactac gactgctggt caccggtcgg cgccgtccac cggcggagct tctcgctcag 420  
agacgccgag gccgtcgccg tcaccggaag cgtctcgtgg a 461

<210> 36054  
<211> 391  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-051-Q1-K1-H9  
  
<400> 36054

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cacgtggtcc cctcaggcaa gatggtcctg ctgcacgact ggatgcaccc tcatcacgcc 120  
aagatactga tcgctggcgt ggatcaagat tttcctctaa ctcaacgtcc tcttcatcaa 180  
cctggagccg ttcacggaac tgatcctatg ctgcaggact ttttctagc catgtgtcga 240

cctccgtgca caatgtctaa tcgtaccttt ccaggcactg cactacatgc atattattgc 300  
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 aaaaaaagat taatcccatt tgcatttttt c 391

<210> 36055  
 <211> 286  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-052-Q1-K1-A10

<400> 36055  
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 acttgggtcga cttgaaatag cgaagggtgat tgctactgag gtgcaaagt aatccaagt 120  
 gaagcaatta ggggagttag ctatgtcaaa tggaaagctt gaaatggcag aggagtgtct 180  
 tctacatgca atggacctca gtggtttgtt gcttttgtat tcttcccttg gggatgccga 240  
 aggcatthaac aaattggcat ctgtagccaa agaacaagga aagaac 286

<210> 36056  
 <211> 346  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-052-Q1-K1-A12

<400> 36056  
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 cgggtgccgcc gacgtgcgag cgcacgcagt gcccgccgta cgaggtggtg gacagcgcca 180  
 acgggttcga gatccggcgg tacacggacg ccatgtggat caccacggcg cccatcgagg 240  
 acatctcctt cgtcgccgcc acgcgcaccg gcttntcca gctgttcgac tacatccagg 300  
 gcaagaacgc gtacaacgag acgatcgaaa tgacggcgcc ggtgct 346

<210> 36057  
 <211> 153  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-A3

<400> 36057

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ctctactgca ataatggggg gtcgcgccta cttctcccag ccgcagctgg tcgcggcggc 120

ggcgggtactg gcagggggcg tgctgctgct ggc 153

<210> 36058

<211> 139

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-A5

<400> 36058

cacaggcgta cgtctaggta gctagcaacg tgtgcgaaaa ggtctacgtt tagcgatgtt 60

gcgcataaac cacacatggg cccatcctgt ccttagtagc cagatcaacg gacccaacaa 120

tgatagcctt atgaggcac 139

<210> 36059

<211> 140

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-A6

<400> 36059

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tcagggctga cgtgagagcg ggcgagagag agcgagggag aggcctggct agatgcaagg 120

ttgcgacgat ggtggtggcc 140

<210> 36060

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-A7

<400> 36060

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 ggggcatggc cctgtgcctg cgcggtggcg cgggagctgc gagaccaatg ccaccgactt 120  
 cccgtcctcg atgtgcaacc gcaagctcat cggcgcccgt gccttgttcc gcggctactc 180  
 gtcggggggc ggcgacgggt ctcgagtcgg cgcgcaccta atgtcggcga gggaccacga 240  
 cgggcaaggc acgcacaccg cgagtacggc agccgggggc ggtcgtggcg ggcgcaagcc 300  
 ttctcgggta cgcgccgggc acggtgcggt gcatggggcc cggggcgc 348

<210> 36061

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-A8

<400> 36061

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 gacagggggc agaacagctg tatctgtgcg gcgagctcc gccacgtgat gaccaacctc 120  
 ggcgagaagc tgatccgcga ggatgacgat gagatgatcc gcgaggcctg ctgtgatggc 180  
 gatgtgcaga tcagcttcga ggagttctgt aaggatcatga gggccaagtg agggaagcct 240  
 gcggtaacgg tatagtaccc cgcgggaatt ggaggaggaa accataccgt gcatcgcata 300  
 ttagaaaggc agtgcaggtc ttggttcctt cggcttcccc atgaagaaac cgtactagct 360  
 gtagctgctg aactgttgga gccccctgct ggcaccctta tcttcattt 409

<210> 36062

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-B10

<400> 36062

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 caacggggaa gttagcaaaa acagttgcaa aatatttggc atatctttga ccgagaaggt 120  
 tccagcaatg aaagaaaagg gctgtggtga catcaacacc aactatccat ccccttcct 180  
 gtctttgaag caacaagtgc cgaaatcgct gggcaacagc tgtgccaccg ttcagagca 240

gaggcctgtt gttgctaggg tgattgacgt ttcaacagtg gatatgatga tctgatgtat 300  
 tggaaaactg tcttggaggc tgtgttgctg agtgtggaca gtgtcggctt gatgggttcgg 360  
 tatectgaag acgggatttg attgaggatc t 391

<210> 36063  
 <211> 302  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-052-Q1-K1-B11

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 gtctttttta ttcaaaagaa atctctcttc taggctggtg cttttcgact ataatttggg 180  
 gattgttccg tgtccgtgca atcatctgaa catgttacta cttattgtac cttgtcgagc 240  
 aaagttctgc taagatctct attgcttcat gtcttctgaa aaaaaaaaaa gaaacccccct 300  
 gt 302

<210> 36064  
 <211> 391  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-052-Q1-K1-B12

<400> 36064  
 acccacgcgt gcgnggacgc gtgggagagt ccttcttact gcattttctt tctttggttc 60  
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 ctcaatagct ttgtcataaa acaattctac ttccccctaa tatagtacat gtgactctga 180  
 catgttatcg aacaaaaaaaa aacattgctc gctctaaatt ttatgagatc tggcatgatt 240  
 tcaaactatt cttcttttca aaatcctgtt ttctgactgc agttttttaca agattttatg 300  
 gtcttgccgc ttcatttttc tgactgtttg cattggaccg ataccttctg atggccttgt 360  
 ccgcctatct tcaagttcgc taccaaagca g 391



<210> 36065  
<211> 369  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-B3

<400> 36065

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gggatgtagg tcataggta tgggtttcga actttcaacg gacgcaagtc ttgaagagtg 120  
gatttggcta ttgatgctga gattctataa tgtctattgg ccacaccagc ttttaccatgc 180  
tgccatattta taggtctgat tagtgccctt cgaatagtgt tggtatttag agcttatgaa 240  
ttagcctctg cctgtgtatt ttagaaattg gccattccag agtccatttt tgtgaaaata 300  
tatttattat catactctgc tactgaacgt ttgtacaatt aatacatggt gtatagactg 360  
gtcttgggc 369

<210> 36066  
<211> 131  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-B5

<400> 36066

gcaggctctc ctgctccccg cgcgggccgt tccgccgacg ccggcgatgc ttcggcagcg 60  
ggcggtttct gcctgcgcgt gtgcgtcgca ggtctgccgc cccctattcg gtgccgccag 120  
ttgcatctcc t 131

<210> 36067  
<211> 106  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-B6

<400> 36067

gggttggctt ctctcccc tcttgctcgt tttcggggac gtgaggttct acgggggttcg 60  
gggtcgtggg ttagcggatc gagatggcgg cgtcggatgt tgagta 106

<210> 36068  
 <211> 395  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-052-Q1-K1-B7  
  
 <400> 36068  
  
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 gcttcactca gtcttagtct cttattagct ctaggctcta gctagccgcg ccactccttc 120  
 gtgtagccat cagccttctc atcgccacca atggccactg ccgagggtcca gaccccgacc 180  
 gtcgtggcgg ccgaggaagc gcccggtggtg gagacccgcg cgccggccgt cgtgcccagag 240  
 gagtctgccc ccgccgaggc cgaggccgag gccgaggctg ctgctcctgc tgatcccagag 300  
 gagcttcccc cggccgagca gcaggcagcc gccgaggcgg aggccgcggc tctgtctggt 360  
 gccgaagagc ccgtcgcggc cgaaccggcc ggcga 395

<210> 36069  
 <211> 365  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-052-Q1-K1-B8  
  
 <400> 36069  
  
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 aatggactcg aagctgaggc tgatgtcgtt gatgcaggat cagggaaaca actagatgga 120  
 cagtatgttc agaagttagg atcagtgata ttctacccc aagtgttgta atgcatgtgt 180  
 tctaccggtt tctggggtat ggtaaaaggc tagtagctca ttggatgagg atgcttggtt 240  
 aatttattgg cttgatgaaa ccatcgggta cttgtagtgt ggacatatgc tggatagtta 300  
 gcatgtgatg aactgattac aatctgtggg ggtaaaagcc ggcgtctatg taaatgataa 360  
 atttt 365

<210> 36070  
 <211> 431  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-H6

<400> 36070

cccacgcgtc cgaatggcag aattcctaata cgtgagggtg gcgaaaagag aaaagaactg 60  
gagcatcccg tggagagaag gcggcggcag cgccctgtggg agatgtcaat cctgtgggag 120  
aagagcgcgg gttggcgatg gctgggttcgg cggacgcgtg actcgaagcc cttctttttc 180  
acgttcgcgg cgctgtgcgg cgctcgtcccc ggcgtaatcg gctacggcgt gatgcagctc 240  
accggctccc gcaacgagca gctcgaaggcc caccttcgct ccacggcccg tcccagagacc 300  
acgatgatgg ggcaagtga cagggagagg ctggcggagt ttctcggcga gctgcaacgg 360  
aaagaggaca cgaacgacag gtacgtggcc gcgctgaggg gggagaccct gaccaggaag 420  
cgctacgagc g 431

<210> 36071

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-052-Q1-K1-C10

<400> 36071

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acactttctgc ggacgaaaag gttctttctg atggtgggac tgatgttaaa gaccaatgca 120  
ccaagtttgg tctcggggat aatgtcaagg tacacaatgt ttgctcacct catcgactcg 180  
agccatgtga gggttcagcg tggagggttcg tcgaggcctg ctgctcgtag ctctgtctgc 240  
tccactcaag atccagcaga agtggagcaa ctacgagaag aacttaggcg acatcaagat 300  
tccttgaagc aacaagctgc gcaacatgaa tactatgcta cacaaccagg tatgggatat 360  
ttgccgccac caccatggag atatcctaca cattcaatgg ggccttgggg acgcccccca 420  
tggccaacac aaccacttcc att 443

<210> 36072

<211> 317

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-051-Q1-K1-G11

<400> 36072

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tgatcgaggg ggtggccggg gcctgcctcg ccgcgccgcg gggcgcgga nactacgccg 120  
aatgcgcgga gacgaccatg gacacggtgg tgatgatgct ggcgctcgac gcgctggacc 180  
aggacgacac ctgctgcgcg ccgagcgcg ttaatgccat gaggtgcacg gcatccttaa 240  
gcatattcct actcatggac atgtactgga acgtccaaac accccaaca agccacgaat 300  
aaaaggcttg gacccca 317

<210> 36073

<211> 465

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-051-Q1-K1-G12

<400> 36073

aaanngggcc gaccacgcg nncgcggacg cgtgggcgga cgcttttga gcgtattctc 60  
aggnttgccg gtatgagact tatcggggaa ctcaattgtg cgagtgaan cangagctct 120  
tccaaaaggc cttcacatgt taagcctgtc aaagaataac atatcaaca ttgaaggcct 180  
tagagagttg acacgattgc gcttggtgga tatcagctat aatagaatat ctagaattgg 240  
ccatggattg gcctcctgtt cctcgttgaa ggagttatat ctggccggtg acaagatcag 300  
tgaggtagat ggtcttcacc ggcttctgaa gctcaagatt ctggacttgc gccacaaca 360  
gatttctaca tcaaagggcc tcgggcagct agctgcgaat tacaactctc tagaagccat 420  
taaccttgcc ggcaaccctg cacagaagaa tgtaagcgat gagca 465

<210> 36074

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-G2

<400> 36074

ctcccatcca gccgccacca ggtgcagagt ttttcgtcat ctcttctccg gcgaagaacg 60

gccagtggcc caccagatca cttgttaaac tttgttgagg ggtgatggcg gtttctttcg 120  
 caaacctcaa caccgaggca gggcttaaaa agcttgatga gtaccttctc actcgagct 180  
 acatcactgg ctaccaagct tccaaggatg acttggtgt ctacacttcg ttttcgtctg 240  
 ctccctcgtc caagtatc aacgtagcaa ggtggtttaa tcacattgat gcgctcgtga 300  
 ggctgagcgg aattactgca gagggccaag gtgtgaaagt tgaatcctca gcagttcctt 360  
 cagccccaac tccagatgtt gctgaagcac aggccccagc tgctgaggag gaagacgatg 420  
 atgatgttga cttttttggt gaggagaccg aagatgagaa g 461

<210> 36075  
 <211> 518  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-051-Q1-K1-G4  
 <400> 36075

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 gagttatngg agtcttgcca tggcggagaa agaagcnagc ggcccaggta gggteccagg 120  
 aaggggacga gtgtggttac cccgcgtagt acanctcatc aacctccaca tagcgctcc 180  
 acngnatgca nccttcaaga tagaaaggcc cccaatggct atcaanggaa atcaggaag 240  
 tttgcacaga aggcaatggg caccactgac atcaggattg atgtgaaact caacaagcac 300  
 atctggagca gtggtatccg gagtgtgccg aggcgtgtcc gtgtcaggat cgcacgcaag 360  
 aggaacgatg aggaagacgc caaggaagag ctttactctc ttgttaccgt tgctgagatc 420  
 cccccagaag gcctgaaagg tctgggtacc aaggttgtgg aagacgacga gtagatctgc 480  
 ctgggtactg atctgtgtca actgtcaaact catttttt 518

<210> 36076  
 <211> 450  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-051-Q1-K1-G5  
 <400> 36076

cccacgcgtc cgtccacgcg tccgggttttg ttgatcctgg tccacatgga gcaggtagat 60  
gtttctgacca tatgttacct gaaattgtga agaaagattg gagaaagggt gcacagtgggt 120  
ttacagtgaac acggcagcat gcagttctta ttcttgctga caccctttac tatgggaagt 180  
tcaagcggtta ctgtaagcca ggaaatgagt ggcataactg ctattcagat gagcactact 240  
tgccaactct cttcaatatg gctgacccga ctggaattgc aaactgggtca gtgacgcacg 300  
tagattgggtc cgaaggggaaa tggcatccca aagtctacag ggctgtggat acgagcttcg 360  
agctgctcaa gaacatctcg tccattgatg agagcgtcca tgtcagcagc aacgcgaagc 420  
atgtagcgca gaggaggccg tgcgtgtgga 450

<210> 36077

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-G6

<400> 36077

ccaacctgag cacaccatcg agtggttcgtt ttggagcagc catgggtaca taggggggtcg 60  
gctgagctag cacatgcctt ggcacccgaa tatcggaccc tgcgacactg tacgcacacc 120  
tagtgaacgg gttccgggtt gacatgtgcg gtaaggccaa aactgctatg aagaacgtgg 180  
ccacgacata ctgctcctct gaacgatcga cgtgagtcac ctgagccgtg gagcccgact 240  
acctggacgg atgcctgatc tgataatacg gattagacac gtacaggctc acgaagcctg 300  
tcgagaacat cgagtttagg ttggactcgc tggactaaag cctgtgcacg aatgaggggt 360  
caagtata 368

<210> 36078

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-G7

<400> 36078

gccaccacca gcagtccttc acgttttagcg ttataatatc caccggcgcgac ggggagcgca 60  
ggcgggcgcgg ccgggggattc gaagcgatgg cgttcacgat gcgggcagtg aaggtgcctc 120

cgaactcggc ctcgctggag gaggcccggc accgggtctt cgattttctt aagcaggcat 180  
gocgctctat cccacccgtc atggagatct acaacctcga cgacgttgtc acgccctctc 240  
agctccgctc gaccatcgct aaggagatcc gtaaaaacca gaacgtcacc aaccccaagg 300  
tggttgatat gcttctgttc aacgcgacgg aagagctgaa caacatagtc taacatgcag 360  
agcatcgcca tcatgtgatt gggcagtatg tgatcggccca agagggcctg gtgcatgaac 420  
tgtggtcgaa ggatctaggg aactc 445

<210> 36079

<211> 235

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-G8

<400> 36079

cccacgcgtc cgccactcg ttttctctt ttctctgcct cgccgcgcg cagggcagag 60  
catggcgccc ccacgccctc tctcgcgcg cgtcttctc gccgcggcgg ttctgtctct 120  
cctttctccg gcagaggcgg agacgggtggg cgtgaactac ggccgcgtgg cgaacaacct 180  
gcccaccaca gctgcggttg tgcagctgct caagcatcag ggcgctgcgc aggtt 235

<210> 36080

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-H10

<400> 36080

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gagggccgct cgctctctc cgtcccagcc gcagctggtc gcggcggcgg cggctcctggc 120  
agcggcgctg ctgctgctgg cggcgggggc cgggacggcg tcggcggcgg tgagctgcgg 180  
cgaggtgacg tcgtcggtgg cgccgtgcct cgggtacgcg atgggcagcg cggcgctgcc 240  
ctccggggcg tgctgcagcg gggtgogctc gctcaacagc cgcgcgtcgt cggcggcgga 300  
ccggcaggcc acctgcaact gcctcaagag catgacgggc cggctcggcg gcggcgctcag 360  
catggccaac gccgtcaaca tccccgggaa gtgcggcgctc 400

<210> 36081  
 <211> 427  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-051-Q1-K1-H11  
  
 <400> 36081

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 cccaccaaca agaggtacaa ccccccaat atcttcagca gccctgaagt cgccgccgag 120  
 gagcccggtt atggtattga gcaggagtac accctcctcc agaaggacac caactggccc 180  
 cttgggtggc ccatcgggtg cttaccgggc cctcagggtc cttactactg tggaatcggc 240  
 gccgaaaagt cgttcggccg cgacatcgtg gacgccact acaaggcctg cttgtatgcg 300  
 ggcatcaaca tcagtggcat caacggggag gtgatgccag ggcagtggga gttccaagcc 360  
 gggccttccg tgggtatatc ttcaggcgac caggtctggg tcgctcgcta cattcttgag 420  
 aggatca 427

<210> 36082  
 <211> 276  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-051-Q1-K1-H12  
  
 <400> 36082

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 gatgcggacg gtaccgggtg caacaagatg gtagagagca cgcagctgtt cgagagcatc 120  
 accctccatc cgacattcga gcaagcagac ttccttctgc tctcaccaa gttcgatctc 180  
 ctagagcaga agatcagcag tccccgctg acctcgtgcg actggttcag cgacttcaact 240  
 cccctgatca gccgcaacct cctcaacggc ggcagc 276

<210> 36083  
 <211> 454  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3069-051-Q1-K1-H3

<400> 36083

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ggttcggact tttgaggcgc aatgtgggtc gttggcgcag tatgggatga agcacatgcg 120  
gtccttcgca aacatctgca acgctggcat ccttctctgaa gcagtgtcca aggtcgctgc 180  
tcaggcttgc accagcattc cttccaaccc ctggagttct atccacaagg gtttttagcgc 240  
ctaagaatca taagggtgagg cgaaatattt cagccgctcc accgcaacga actgggtttac 300  
attaccagtc ctcagggggg tcttagttct tgaaccataa gtgaagcaga cttataccac 360  
tattatagct gttccaccgt cgttccagat tacatagcta tgcccaattt gcggtgtaca 420  
tatatagtcg gaaagttatt tggcaattgt attg 454

<210> 36084

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-H4

<400> 36084

cagaggcgat ggctcccttg catattactt ttccaattta tatctgacca atctatttag 60  
gctacgtgga cttactctcg aggaaacatg tatccacaac aagcaagtca aaaaccatc 120  
actggcacta ccgatgaaca gcaattgtct caagctacct ttaccctaaa tttagctatg 180  
acctgaacgt ccacatggtt tacactatct acacacttac tactgataat atgataaggt 240  
tgatacttac acatctaaca agaatagcat ctgtgaagaa atcgatcttt gtgaagattt 300

<210> 36085

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-H5

<400> 36085

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gttgacctgt gccttgatcg catcaggaag cttgccgaca actgcactgg tctccagggc 120

ttcctcgtct tcaacgctgt tgggtggagga acgggctctg gccttggttc cctcctccta 180  
gagcgccctgt ctgttgacta cggcaagaaa tccaagcttg ggttcactgt gtacccttcc 240  
ccccaaagttt ctacttcggt agttgagcca tacaacagtg tactgtccac ccactccctc 300  
ctcgagcaca ctgatgtggc tatactgctg gacaatgagg ccatctacga catctgccgc 360  
cgatcccttg acattgagcg cccaacctac accaactca acaggcttgt gtcccaggtc 420  
atctca 426

<210> 36086

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-G10

<400> 36086

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gtgatactgg caactccatt gataagactg catgctcaaa taaagcttgg accatgaagt 120  
gagatcaagc tcatggacaa gtagegatca tcttttatcc aatcttagtg tattcccaat 180  
agagcacacg tgaagaaaat attttgtttg actactgtaa atgtttaagg caatgaaaat 240  
tacaaatatg aaatagttgt ggt 263

<210> 36087

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-E4

<400> 36087

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gcactttggg gtgccatttt gtacaatggg ttacatact atgaagtaaa ccgcatgctg 120  
aataatgcaa cgcagatggc tgctggcata agtgatcgat caaatcagtc tgacatgagg 180  
gcagacagga aggcatttaa ccgatgggt tattaccctc taattctaata cggttcatgg 240  
gcttttgcaa ctatcaatcg tctttatgac ttgccaatc cagggcacag gatagtctgg 300  
ctctcctttc ttgatgttgg gttcgctgga cttatgggcc tattcaattc cattgcttat 360

gggctaaact cttttgtgcg ccgagctatt gcagagagaa tcgacacggt cctacctgag 420  
agaataaaaa ggagcctccc tgctttgtc 449

<210> 36088  
<211> 452  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-051-Q1-K1-E6

<400> 36088

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gtcctctcgg agcttctgct gatttcgatg aggatgaact ggaagccgaa cttgaagaac 120  
tggaggggagc agagttggaa tctcagcttc tggagcctgt tgcagctcct ccggtgcatc 180  
cagtgcattgc cccagccaac aagcaaccag cgcgccctgc tccacagaaa gctacagctg 240  
aagatgatga gcttgetgca ctgcaagctg aaatggcatt gtgatcaggt ttccaattaa 300  
gaggtggaat gtgtatatga atggcggtat gctaccaaga tgaaagttga gtcaggattt 360  
attatatttg ccatgtgtat aatcttgggg gatatttggc aagcagaaaa aagctgctcc 420  
aggcagtgtt tgtttcagtg antttgggct ct 452

<210> 36089  
<211> 441  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-E7

<400> 36089

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gggtgggtcac ctccaagtac ggggtggagcg ccaacatgga gaagatcatg caggcgcaga 120  
ccctgtcgga ctcgagcaag caggcgtaca tgcgcgggcaa gaggggtgctc gagatcaacc 180  
ccaggcacc ccatcatcaag gagctccgcg acaaggctgc ccaggacaac gagagcgagg 240  
agctgaagca cacggcgagg ctggtgtacc agacggccct gatggagagc ggggttcaacc 300  
tgccccgacc caaggagttc gcgtccagca tctacaagtc ggtgcagatg ggcctggacc 360  
tgagccccga cgcgaccgtg gaggaggacg acgaggcaga ggagcagccg gaggtggagg 420

agaaggatcc ggaaccggag c

441

<210> 36090  
<211> 320  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-051-Q1-K1-E9  
  
<400> 36090

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aatcatctca atacattcga gacatggggc tggctctggac ccaactagca ccacataaca 120  
ccacacacaa tgcaccgtag tgtgcgctga atacaccatc tcccaaccga aattggacag 180  
agtgagccca ggacgggcaa aaactctcct actgttgatt gcaaagaaca ggacacaagg 240  
aggtccggtg acctagcaga ggggggacga ctgcggagga cccgagcctc acctacccaa 300  
agaccagtgc atctgtacca 320

<210> 36091  
<211> 326  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-051-Q1-K1-F2  
  
<400> 36091

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agaaaaaaaa aaaaaaaaaa aaaggaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaa aaaaaaaaaa aaaaaaaagg ggcgcccttt taaaaaatcc aaaatttact 180  
aacccgtaaa tgcaagttaa aaactttttt aaaggggccc taaaaataaa taaattgccc 240  
aattttttaa aaatacaaaa ttggaaaaac cttgggggttc caaaaataaa tcgctttgaa 300  
aaaaatcccc ttttgacaac ttgggt 326

<210> 36092  
<211> 328  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-F3

<400> 36092

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gcggtcgtgg tacagttgcc actggccgta tgcagcgtgg caccgtcaag attggtgaca 120  
cagttgatat cgttggaatc cgggacaccc ggaactgcac cgtgactggc gttgagatgt 180  
tccagaagac catggacgat gccatggctg gagacaatgt cggactgctg ctccgtggta 240  
tgcagaagga tgacattgag agaggcatgg tgctggcaaa gcccggtctt atcacaccgc 300  
acaccaagtt tgaagcttgt gtgtatgt 328

<210> 36093

<211> 447

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-051-Q1-K1-F5

<400> 36093

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ggctccatga cgccgatgct catcggtctc gtcgtgctgg actccacgca gggggtactc 120  
tgcggcgtcg ccaggggctg caggtggcag cacctggcgg cgtggaccaa cctggtggcc 180  
ttctatgtca tcggttgcc gctcgccatc cttttcggat tcacgctcgc cttccaaacc 240  
aaggggctgt ggatggggca gatatgcagc ctctctgcc agaactacgt cctctttttt 300  
atcacctgt gaaccaactg gcaggagtta gacctgacca tgttcaacaa ggacaacgat 360  
tttgtgtgct aggaatctag aaagagtttt tattntcttt tttgccatgt gctgttgctg 420  
aaacattgaa ccatcagcat caggctt 447

<210> 36094

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-F6

<400> 36094

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gttgetgect acctgcttgc tgctctcgct gggaacgcca gcccctccgc tgacgatttg 120  
actgccattc tggagtcagt tggctgtgaa gttgacaatg aaaagatgga actcctgctg 180  
tcccaactga gcggtaaagga catcacccag ctcattgccg cgggcaggga gaagtttgct 240  
tcagtcccat gtggtggcgg cgggtgctgct gttgcggcag ctgcacctgc tgctggcgga 300  
gctgcttctg cagctgaggg aaagaaagaa gagaagggtg aagagaagga agaaagcgat 360  
gatgatatgg gcttcagcct ctctgactag gctgcacagt catcacagta ttgttttggg 420  
cagtgaacc agaggaaaac cagagtcatg tttag 455

<210> 36095

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-F7

<400> 36095

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gatgggatca agctcactaa agtaccagg gcagccacag gaaattcctt tctttcagaa 120  
taccacattt tcaatccctg taaacgatcc acaccagggtt tggaattctg acgagcacga 180  
agatttgcaa gctcttgtga tcatttcgag accacctgct aagatatttt tatatgatga 240  
ttggagcatg cctcatcacg ccgcggtact gaaattcccc ttcgtatggg atgaagactg 300  
cttcgaagca gcaaaagacg aactctaggt cacaagtgtt ttctgcaatg tatctgcttc 360  
atccatgatc ctgctggact actaaaattc acatgcacta gtcgtaataa agccagtgcg 420  
ctattcatgt ataattctg 439

<210> 36096

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-F8

<400> 36096

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gttctataag gtggacgaca cgactagcaa ggtgaccgc ctcgcaagg agtgccccaa 120

cacagagtgc ggcgcgggcg tcttcatggc caaccacttc gaccgccact actgcggcaa 180  
 gtgcgggactc acctatgtct acaaccagaa ggcgtaattg cttgccccga tttgctttat 240  
 ccgcctaccc tatcgaacat ccagctgttg gttactcgaa ttgtatctca tgtagatctg 300  
 gctgagggttg aaacttaaat ggaacagtag tatatgtcat attggaaccc gt 352

<210> 36097

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-F9

<400> 36097

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 gccaaagggg acgaccggcg gaggggtgac tgtcgggcta tcaactcctct gcgctggggc 120  
 cggcccgggc gccgcgcaaa aatgcggatg gcagccaaac gtatgctgca gcaagattgg 180  
 ctactgcggc acgaccgaca agaactgcgg ggacaggtgc cagaccggcc cgtgccgctc 240  
 gggcggcggc ggcagcaacg gcggccgcgg tgcgaacgtg gctagcagtc gacaccggct 300  
 ctttcttcaa cggcatcaag agccacgccg ggagcggctg cgagggcaag aacatctaca 360  
 cccggagcgc gttgctgagc gccgtcaagg cgaaccacgg cttcgcccat ggcgggtcgc 420  
 aagtgcattg caagcgcgag . 440

<210> 36098

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-051-Q1-K1-G1

<400> 36098

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 gggctccgaa aacatcgata tctgaccaa ctactcacct gtgctcaaca ctgacgacgc 120  
 ctacgccagt caagaagtta acgggcctga cgggaagccc attggtcctc ctatgggaaa 180  
 tccatggatc tacatgtacc ctgagggtt gaaggatctc cttatgatca tgaagaacaa 240

atacggaac ccacatatct acatcacgga gaacggaatc ggggatgttg ataccaagga 300  
 gacacctcta cccatggagg atgccttaaa tgactacaaa aggctagatt acatccagcg 360  
 ccacatcgct actcttaagg aatcaataga cttgggatca aatgtgcaag gctacttcgc 420  
 ttggtctctg ctggacaact ttgaatgggt c 451

<210> 36099  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-051-Q1-K1-E3  
 <400> 36099

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 gccctcggtc accacagccg gcacgccatg gccgaggaga ccgacaccag gcctgcctcc 120  
 gcgggctccc gagggccgcc cgcgcccgag gacgacgaca gggaggaggg cgagatcacc 180  
 gacctgcct gcgtccttc cccgcccgcc acgcaccgc togagcactc ctggaccttc 240  
 tggttcgaca acccgcagag caagtccaag caggccgcct gggggagctc catccggccc 300  
 atacacacct tcttcaccgt cgaggaattc tgggggcttt acaataacat taatcaccct 360  
 agcaaattga tcgtgggagc tgatttccat tgcttcaaga acaagatcga gccaaaatgg 420  
 gaagacccta tttgtgcgaa t 441

<210> 36100  
 <211> 92  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-051-Q1-K1-C9  
 <400> 36100

ccgnttgaa aaccggccga cccagcggcg actagtaaaa gcaggatggt caataaaatt 60  
 ttaaaaaaaaa aaaaaaaggg aaaaaaggga ag 92

<210> 36101  
 <211> 292  
 <212> DNA  
 <213> Zea mays



<223> unsure at all n locations  
<223> Clone ID: LIB3069-051-Q1-K1-D10

<400> 36101

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aatctgatct gtttggagct cegttanctc acccccaaac tttatttaga gaagggtgta 120  
tgtcttttgt caagattata acatttctga acaattgtgc tacacacgac gtggcaccat 180  
tctcatcatg tatcctagga tgagttatca ctgttaaata tttcaagtca ttttaatcat 240  
gcatctgcac acaatattat agaagcactc tcaaattggtg ggacgctaac tt 292

<210> 36102  
<211> 402  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-051-Q1-K1-D12

<400> 36102

ggccgaccca cgcgtncggc cgctattaga agaacccttt ttcaagacta tgccatgtcc 60  
gtcttcgggg gacctgggag gcggtggcgc agctccgcaa ggccgggaag gtcaccgtga 120  
gggagaccac gctcaagagg ctgggcgccca cgcacttgag gtacggcgctc gcagatggac 180  
acttcgaggt gacgggggttc gcgctgcttg agacgatcaa ggaggcgctc cccgctgaca 240  
tgtggagcct ctagatgaag aaagcctggg ccgaggccta cagccagctg gtggcggcca 300  
tcaagcggga gatgaagccc gatgcctagt agtggcgatt ggcaccagtg ttttaacccat 360  
gacgcagcgc cgtcacagat gtcccgtgtg gtcttgcgct tt 402

<210> 36103  
<211> 448  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-051-Q1-K1-D2

<400> 36103

aaccagctc gctcgtccca gctgatcatg ttgagcacct agtagcgacc tgctcgatca 60

gcantgtaga gtgtcggtag gtgtctgtct ctcttgggtg ctggttgcaa cggtcatggc 120  
gacgtcgtct cgtcgggtgc ccttgtgtgt gctgtgcttg ggcgtgctgg tgtcctgtct 180  
cttcgcggtg ggcagcttgg accaggagct ggacatcacg tggggcgacg ggcggggcaa 240  
ggtccttgac aacggggcggc tgtgtgacgt gtcgctggac cgcacgtccg gctccgggtt 300  
ccagtcccgg cacgagtacc tgttcggcaa gatcgacatg cagctgcggc tgggtgccggg 360  
caacttcgtc ggcaccgtca ccgtctacta cctgtcgtcg cagggcggtg cgcacgacga 420  
gatcgacttc gagttccttg gcaacgtg 448

<210> 36104

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-D3

<400> 36104

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gtttatgata tcaaacccaa aggcaaaata ccctgtgttg cagctggacc ttagattgat 120  
atcagatctt gttgttggtt tcgtgtctgc tacatgtggg ggaatcgctt ttgcttgctt 180  
tgggcaacct gtgattacag gttatctact tgcaggatct ataattgggc ctggagggtt 240  
tagctttgtc aatgaaatgg tgcaagttga aacggtagcc cagtttggtg tgatatttct 300  
cctgtttgca ttgggacttg agttttctac tgcaaaactt cgagttgttc gtgctggtgc 360  
tggctcggga ggaatgctcc aaattatgct gttcatgttt ctttgtggta ttttggctac 420  
actatgtgga ggcaaaacaa aagaaggtgt ttttg 455

<210> 36105

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-D4

<400> 36105

ggacgcgtgg gcattcatca aactggctat ttttgataag gagcaggctg cgtgtagtgg 60  
tcagagaaga cgagctgctg acatcagtaa ttttgccagt gctgttatta gagttagcag 120

atcacagaca aaactaaaca ctgaaattgt aaaacatctg ggtattatcc atgagtacat 180  
ggagacaatg gcttctgttc ataatgcttt tactgatcgt tccaatgctt tgcttcgtgt 240  
gcaaaatttg tcagcagatc tatatttctt gcatacccg gcaggaaaac ttgaatctgt 300  
atcagcgaga ggaatggatc aggagagatc aaggatcaa aagatagaag aattgaaaga 360  
aacagtatga gccacggaag atgcaaaaac acgtgcactt aaagaattgg aacttatcaa 420  
ggaaaataac atgaatga 438

<210> 36106

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-D5

<400> 36106

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tatttgaatt tgatgggagc ctcgaggatt tgcctttgta gagtttgttg atccttacga 120  
tgctctgaa gccacgtatc acatgaatcg ccaagtttct tttggtcggg aaatagctgt 180  
tgttcttgct gctgagtcac gaaaaaggcc agaagaaatg cgcagcagaa ctagagtaag 240  
aggttactct ggatcatgaag gtcgccggtc ttcttactat ggtcgggtctc gttctcgctc 300  
tcctcgctat cggggccgct ctcggtcgag atcactctct cctgctccaa ggccgtggaa 360  
tgactactct gcctctccaa ggagacagga agcccatcgc tcatctcctt ccaggcgcct 420  
gccaaaggag catgatgaag a 441

<210> 36107

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-D6

<400> 36107

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gcaatatgta ggtctgcaaa acctgattca acgaaatgag caatcatatg gttcaggaaa 120  
cacgccttct ggtggagtgg ctttgccatt tatcttagtt cagacccgac ctcatgctac 180

cgtggaagtt gagatatcag aagatatgca gctggtgcat tttgacttca atagcacccc 240  
 attcgagctg catgacgact catacgtcct aaaagaaatg cgattctgtg gaagagaaca 300  
 acatgacagc actcaagagt cgatatcaaa tggaggtgag agctcaagcg tgtcaaatat 360  
 ttattggcaa cacgtacagc atgtggaaag gccaaacaat ggcacaggta ggttaccgag 420  
 ctcaccgtct attccaggga tcttgaaag 449

<210> 36108

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-D7

<400> 36108

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 gggattcaaa gggagaatca atgggttaat ttgccaaagc caaaaagggtt cttgaaaaag 180  
 gttgaccatt caagaatgaa ccccttgcc tggaaacaat ggtcgtgatc attctggaat 240  
 gattcaagtc tttcttgccc aaagcggaag ccttgactgt gagggaaatg aactgccacg 300  
 attggtttat gtttctagag agaaacgacc aggctataac catcataaga aagctggtgc 360  
 tatgaatgca ttggtccgag tctctgctgt actaacaat gctccatatt tgctaaactt 420  
 ggatggtgat cactacatca acaacagc 448

<210> 36109

<211> 229

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-D8

<400> 36109

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 acgtacgtgt ccaagctcaa ttacctaggg tccgggggag ccatactcga atggatcggc 120  
 ctgtagggac acttctacaa gcccaacatc ccgatcatga gaaccatact cgacaagctc 180  
 tccaccctgt gctgccccat cttgtttacc gaaatcgaca tcatcaaca 229

<210> 36110  
 <211> 474  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-051-Q1-K1-D9  
  
 <400> 36110  
  
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 tggccaaata cttcataggt agcgtgctga gcggcgagg cagcgtgcct gctcctcagg 180  
 cgtctgctca ggcttggggc gccatggtga ccgagatgca gaagggcgct ctttctacgc 240  
 gtctgggtat accgatcatc tacggtatcg atgcagtgc tgggcacaac aacgtctaca 300  
 aagctactat ttttcctcac aacgtcgggc ttggagctac cagggaccct gacctcgta 360  
 agagaattgg agaagcaact gctcttgaag atagagctac tggaattcct tacgcctttg 420  
 ctccctgtat agcgggttgt agagatccaa gatggggacg ctgctatgag agct 474

<210> 36111  
 <211> 451  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-051-Q1-K1-E1  
  
 <400> 36111  
  
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 ctcgctgtcc tgggtgtcat ttttctcatt gcctacttca acagcagccc aggtgtaact 180  
 gttacgagca aagagactgt gaccaggtct gaaggttcct gcacatcaga agttatgcgg 240  
 gcgcttccat atcttaagaa ggcatatggc aatgccatgc aaaagggttct ccatgtaggc 300  
 cctgatagtt gtacagtagt ttctaacctg ttgaaagaag gaaagggttga agcatgggga 360  
 gtggagcctt atgatttgga ggatactgac agtacttgca aaagactcgt gcgcaagggc 420  
 tttgtccgta tgtctgatat taagttcccc c 451

<210> 36112  
 <211> 444  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-051-Q1-K1-E10  
  
 <400> 36112  
  
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 tttctcctct caggcacctc aggctgcccc tgcattttct tattcacaag ggcctcatcc 180  
 tgggtgtgcc atccagtctc aatttcgcc gactgtcgcc ccatcatttc ctcttcgca 240  
 ggtgectcaa tctgtaacac ccaatctgcc accaggccaa tcgaacttct ttttgcaatc 300  
 agcatcaggg tctggtattg acagcctgtc tggggttcct acccagaatg gagcaccatc 360  
 ctacattccc ccacagaatt ctcagttcac tgctccggca aatcaacaac catcgagcc 420  
 aagcttcctt ccacaaacta gcac 444

<210> 36113  
 <211> 435  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-051-Q1-K1-E11  
  
 <400> 36113  
  
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 ggggaggacg ggcgcacgct ggccgactac aacattcaga aggagagcac cctccacttg 120  
 gtgctgcgtc tcaggggtgg catgcagatc ttcgagaaga cacttactgg caagacgac 180  
 acccttgagg tggagtctc agacaccatt gacaacgtca aggccaagat ccaggacaag 240  
 gagggcattc caccggacca gcagcggctg atcttcgccg gcaagcagct ggaggatggt 300  
 cgcaccttgg ctgactacaa catccagaag gagagcacc tccacctggt gctccgctc 360  
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 gagtcgtctg acaca 435

<210> 36114

<211> 444  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-E12

<400> 36114

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tcgtcctcgt ctactgcacc gccggcatct cggggggcca catcaacccc gccgtcacct 180  
tcggcctctt cctggcgcg c aaggtctccc tgggtgcgcgc gctgctctac atcgtggcgc 240  
agtgcctcgg cgccatctgc ggcgtcggcc tcgtcaaggc gttccagagc gcctacttcg 300  
acagggtacgg cggcgggagcc aactcgctcg ccttcgggta ctcccgggg accggcctcg 360  
gcgccgagat catcggcacc ttcgtgctcg tctacaccgt cttctccggc accgacccca 420  
agcgcaacgc ccgcgacttc cacc 444

<210> 36115  
<211> 418  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-C8

<400> 36115

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ggcaacgtgc agcttcagtc ctgaaagttt tatcggtgag ggatcggtag gccgtgttta 120  
caaagccaaa ttcggtgac agaaggtcat ggctgtaaag aaaataaact tgtctgtatt 180  
tccaagccat ccttcagatt tgttcattga gttggtcgca aacatttcaa tgttaaatca 240  
tccaaacctt gctgagctcg ctgggttactg cttaaagcat ggacaatgct tgctggcata 300  
tgaattctac cgaaacgggt ctcttcatga ttatcttcat ctgaatgatg aacacatgat 360  
gccattgtct tggaacagcc gtgtcaagat tgcgctagga tctttgagag cattagag 418

<210> 36116  
<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-B10

<400> 36116

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gggcgaagtt cgcgtgagcc aaggtaccgc gtcgagttcc atcctgttga ttcgccattc 180  
catccagaga atggtcagga atcggtagca atggctagtc atgaggggaa gcgttataag 240  
tgctttctac cagttgaaga aactaaaacc atgaagtcaa tgctcccaca aaatgcgact 300  
aatattataa tagaaagtga aaggcgaatt aagccaaagg agccgatga gttacttgag 360  
gttctcaagg atcagtgttt ctacaggcac gaaggttggg ggtcgtatga attcttgtat 420  
tatgggaaaa tcagac 436

<210> 36117

<211> 68

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-B12

<400> 36117

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gagggaag 68

<210> 36118

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-B2

<400> 36118

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ggaggcacia gccgacatat ggcggctcag cctctcctac ctacgcccc tgtcactgag 120  
gtgcgccgtg gagcttggca tccccacggc gatctaccgc catggcgggg ctgcctcagc 180  
cgctgagctg gtcacggcgc tgtctctccc ctccactaag ctgccgttcc tccgccgcct 240  
gctgcggctc ctgccgcgt cgggcgtgtt caccgtcgac aagcagagca cggaagaaga 300



gcgggtaccgc atcagccccg tgctcctacct cctgggtggac ggcacccctc acgaggacca 360  
catgaaccac accgctctgg tgctcacctg cacctcgacg cgctacatcg aggcgggggat 420  
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<210> 36119

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-B5

<400> 36119

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tgccctactg ctctgtaagg acatataaaa ttgggtatttg tactttctaa ggttctcctt 120  
ggaatggtag agttttacag ggaaccttcc atcatcagtt gctgacatag ctogaactcg 180  
acgtttcttc ttccgcagtt gcggctctgg ataaactcga agctgacctt tccaagtctg 240  
acgacggggc cttcttctta ggccaattca gcttggcgga ttagcgtac attacgattc 300  
tggaagggt tcagatatac tattcccatc ttaggaacta cgacatcgcc gaaggcaggc 360  
ccaacctcca ggaattcatc gaggagatga acaagattga agcgtatgcg cagaccaaga 420  
acgatcctct gttcttgctt gatcttgcca agaa 454

<210> 36120

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-B6

<400> 36120

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gccgtactac ccggtggcgg gccgcatcgt ggacgcgagc cccggggagc ctgtgggtgga 120  
gtgcaccggg catggcgtct ggttcgtgga ggccgctgct agctgcgcgc tcgccgacgt 180  
taactacctc gagcgccctc tgctcatccc caaggaggag ctctcctgc gccctccgcc 240  
cgaggagaag ctgaggacc tcgtcctcat ggcacaagtg accaagtctg cctgcggcgg 300  
gttcgcggtc gggatctgct tcagccacct ggtgttcgac gggcatggtg cggcgcagtt 360

cctcaaggcg gccggcgaga tggcccgag gctgacggcg ccgtcggtcg cgccgggtctg 420  
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<210> 36121  
 <211> 468  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-B7

<400> 36121

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 tgaagctgag aaaaagaaga tcaggcaaga gtatgaacgc aaagagaagc aggttgaagt 180  
 acgcaagaaa attgagtact ctatgcagtt gaatgcttct cgcacaaag ttcttcaagc 240  
 tcaggatgat ctagttaaca aaatgaaaga cgatgccatg aaggaacttc tccttgctcag 300  
 ccacaaccac catgaataca agaacctttt gaaagaccta atcattcagg gtttgctccg 360  
 tttgaaagag ccagcagtat tgctccgttg ccgcaaggat gatcaccatc atgtggaatc 420  
 agtgctgcat tcagcaaagc atgagtatgc atcaaaagca gatgtcca 468

<210> 36122  
 <211> 449  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-B8

<400> 36122

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 gcaccctacc aaagagggtg aaaaattggt ctcttcggtg gtgcaggagt gggtaaaact 180  
 gtgctcatta tggagctgat caacaatgtt gctaaggccc atggtgggtt ctctgggttt 240  
 gctggtgttg gagaacgtac ccgtgaaggg aatgacctgt acagagaaat gattgaaagt 300  
 ggtgtcatta agctaggtga caagcagagt gaaagcaagt gtgctcttgt ctacgggcag 360  
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catttccgtg atgctgaagg acaagatgt

449

<210> 36123

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-B9

<400> 36123

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gggatgatcg ccggcgggag cagccactg tacaggggag gcgagggctg cggcgccctgc 120

tacgaggtga aatgcacgac caacgccgcg tgctccggcc agcccgtgac catcgtaatc 180

accgaccagt cccctggcgg gctgttcccc ggcgaggtcg agcactttga catgagcggc 240

accgccatgg gcgccatggc acggcccggc atggccgaca agctccgcgc tggcggcgtg 300

ctcaggatcc tgtacaggag ggtgccgtgc aagtacaccg gcgtcaacat cgcgttcaag 360

gtggatcagg gcgcgaaccc gtactacttc gacgtgtca tcgagttcga ggacgac 417

<210> 36124

<211> 452

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 36124

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cgacgatgcg ggctcgggtt ggagagaggc tgcccaagtt caccgcagac gatgctgccc 180

ttgtcaaggg ggccctggac ttcatgggca taaaccacta caccactttc tacacgaggc 240

ataacgacac caacatcatc ggacggctgc tgaacgacac tttggcggac accggaacca 300

tcagcctgcc cttcgacaaa aacgggaagc ccattggaga tcgggctaata tcgatatggc 360

tgtacatcgt acccagcggg atcaggaagc tgatgaacta tgtcaaggag cgggacaata 420

tccaacggt ttacatcact gaaaatggga tg 452

<210> 36125  
 <211> 350  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 36125  
  
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 agtggcaatt catgacgggt cggccggggg gggctcgtgtg ggtggcgcat ggctcggcgg 120  
 aattnaagaa aaggctggct tgcaagacag actccctggc cagtatacgg gtgattaacc 180  
 aaaacaaatg cacgtccaac acacccaaat acagatttgt tgtgcgattt accaacaagg 240  
 acatcactgg ccaaatacata tctgctatta tagtgggcca tatgggtttt gcttctgcct 300  
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<210> 36126  
 <211> 452  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-051-Q1-K1-C2  
  
 <400> 36126  
  
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 ggattgcatg tgaatggcgg tggcgtggat gttgggtggg cactcagacg gaatatgtta 120  
 ccgtactcac acaataggct caagaggggc cttatttcag gagccactgt atgggagggg 180  
 ctaatggagc tggcatacta cattcttcgg agtgccaata gactcgaaag tatgggtctta 240  
 gatccaaaga taaggattgg gggtcctcag ctggatgggt ggatgattga tattggtagg 300  
 gagacgatca aaaatatattt tgaggggagag gagtttcaga gcattattac tattctgtaa 360  
 gaatggtaag ataggccaca ggattttggg ggtcacacca agtggccatg tttgattatg 420  
 ccataagttt gaccagtatg gtcataaatg tt 452

<210> 36127  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-C3

<400> 36127

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gtggcacctc agcaacgtgc agacctgggt cagcgcccg ctcaccgacg aggacacctg 180  
cctcgacggc ctctcgctcc gcgcctcgga cgccggcagc cgcccgcca tccggggcaa 240  
ggtcgtcgag gtcgcacagg tcaccagcaa cgcgctcgcg ctcgtaata aggtcggggc 300  
tggttactaa cacggggagg ggacccaaga tccaggcca ggcccagccc aggtaccaca 360  
cccgtacta gtatagtact aggcgccttc accttcacgg cgttgggtgt ttctcgctcg 420  
ttaatagctc ggtttgcttt gctt 444

<210> 36128

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-C5

<400> 36128

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gcgcggcgca acagcagcag ctggcagcag gggaggccgc ggccggcgcg gtgcggcccc 120  
tgagacgct gcttcgcgcg gcaccgctgg ggcctctgct ggccgccatg accgtcatgc 180  
tccgtaacca gcagagcaac gactacggcg ccgtcgcta ctccgacctg ggaggcttca 240  
agtacctgt ctacgccaac ggctctgcg ctgcctactc gctggtatcc gcgttctaca 300  
ctgccgtgcc gaggcctgcc accgtgtcgc gctcctggct cgtcttcttc ctcgaccagg 360  
tgttcacgta cctgacatg gcggcgggcg cagcggcggc ggagctgctg tacctcgctt 420  
acaacggtga caaggaagtg acgtgg 446

<210> 36129

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-C6

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 cgggaggcgg ctcttctcgt ccgccgaggc cgcgtcgacg gctgcggtga ggacggcgca 180  
 gaaccgcgtc gaggagtctc tcgaggtcga ggcgagcacc gaggaggga agcctcctcc 240  
 ccactacggt cgcagctgga aggcttctga actgcgacta aaatcttggg atgaccttca 300  
 gaaattgtgg tatgttcttc taaaggaaaa gaacatgcta atgacacagc gtcaaagtct 360  
 gcattcagag agcatgaggt tcccaaattc agaacgaatt tccaaggtaa agaaatcaat 420  
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<210> 36130  
 <211> 449  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-C7

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 ccgcccattg atcgggctcg cggatccgcg ttcctgctcg gcgtcctgct cgcaggatcc 180  
 ttgttcgctt tttcagttgc taaagaggag accaagaagc tcgggaccgt gatcggatc 240  
 gatctcggta ccacctactc ctgtgtcggg gtctacaaga acggtcatgt cgagatcatc 300  
 gccaatgacc agggtaaccg tatcacaccc tcattgggtt ccttcaccga tagcgagagg 360  
 ctcatcggtg aggtcgccaa gaaccaggca gccgtcaacc ctgagaggac catctttgac 420  
 gtcaagcgtc tcattcggaag aaagtctgc 449

<210> 36131  
 <211> 456  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 36131

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 ttttgcccaa aatacccttt tcatatttcg gactcataga acttcaaagt tctcagtgc 240  
 gcacatatta tggagctgca ggacttcaat tgtctttag cctagtttca gttaaaacat 300  
 ggtaatttgg atatttcgtc atgattacat cggatattat gttggtgtcg ggcaattaca 360  
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<210> 36132  
 <211> 171  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-050-Q1-K1-H5  
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 catgtcatgc aagcttgctt gctgggactg atgcgcgaca cctcccttta a 171

<210> 36133  
 <211> 449  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-050-Q1-K1-H6  
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 tcggtcttgc tggccttgcg gtcattggggc agaaccttgc cctcaacatt gcagagaaag 180  
 ggttcccat ctctgtgtac aacaggacaa ccttcaaggt ggacgagacc gtgcagcgtg 240  
 ccaaggcaga aggaaacctt cccgtctacg gcttccatga ccccgctcc tttgtgaagt 300  
 ccattcagaa gccacgggtg gtgatcatgc tcgtcaaggc cggcgcgcca gttgaccaga 360

ccatcgcgac gctcgcagct cacttggagc agggcgactg catcatcgat agggggaacg 420  
 agtggtacga gaacacggag aggagggag 449

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 <211> 460  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-H7

<400> 36134

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 accctcgcgt cttcttcgac atgaccgtcg gcggcgcccc ggcgggcccg atcgtgatgg 180  
 agctgtacgc caacgaggtg cccaagaccg cggagaactt ccgcgcgctg tgcacgggcg 240  
 agaagggcgt gggcaagtcc gggaagccgc tccactacaa gggctccacc ttccaccgcg 300  
 tcatccccga gttcatgtgc cagggcggcg acttcaaccg cggcaacggc accggcggcg 360  
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<210> 36135  
 <211> 498  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

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 cgccaagacc ctgcgcaagc ccgtcttcac caccgtcgac cagctgcgcc ccagacgca 300  
 cggccacacc ctcaccgtcc gcgtcatcnt ccgccgcacc gtcctcgaca agcccttcac 360



gcacatcggc cgcacccgcg tcgcaaagtg cctcgtcnga gacagcacgc gcaccgttct 420  
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 caacgctaag aatgacat 498

<210> 36136  
 <211> 339  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-H9

<400> 36136

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 tcatgtactg ctgctcccca tgcgcctcc actcgagctc gactacatag agcctctcgc 180  
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<210> 36137  
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 <213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-A1

<400> 36137

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<210> 36138  
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 <212> DNA  
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<223> unsure at all n locations

<223> Clone ID: LIB3069-051-Q1-K1-A10

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ttgctgatcg agacagcatc ggtttagaat tgagacagtt aaagagaaaa agagaagatg 120

aggagttgca tgtggagcgt aaaaaggcac agttgggttga taccaagaaa atttctattg 180

acaatagtca tgcagctgct gtggatacct ctgagctagt agttgaaatg atgcaagtga 240

aggaagacat tgagaaccaa gaattagttg tgcagaaaat taatttgaaa cttacagatg 300

ctttgcaaga agagaataat agaagagcgt cttacaagga cttcattgag tctgtacatg 360

ctgaaatggg gtctattagc gatgctgagc gtgaattgca gcttggttga gaaaaaatac 420

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<210> 36139

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-051-Q1-K1-A11

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agatggtgcg gatcatccgc caggaggccg acgagaaggc caacgagatc tccgtctccg 180

ccgaggagga attcaacatt gagaagctgc agcttggttga agctgagaaa aagaagatta 240

gacaagagta tgaacgcaaa gagaagcagg ttgaagtacg gaagaaaatt gagtactcta 300

tgagttgaa tgcttctcgc atcaaagttc ttcaagctca ggatgatcta gtaaacaata 360

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<210> 36140

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-A2

<400> 36140

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ggacaaggga cctgaaaagg ctaaatacagg cgcagataag aaaaataggc caaaagatgt 120

ttttggtcgg ccattggcaa cagaacaaga atttgaagtt ctcaagaatg ctccaagggt 180

agacacaggt gtcctgcaa gggtaaacc atttggagtt gaagtctgta atgtagatg 240

tttaagggtgt ggaaactatg gtcaccaaag tggtagaccg gaatgtccct tgaaggatgc 300

aatcatgcct aacgaggaga gtctgttgaa aagagacgat ccacttacia ctataatggc 360

gcatacggat tcaagtgagc ctttgaagtg ggaacttaag cagaaaccat gcatgagccc 420

tcctcgtggt ggatttgacc cagatgat 448

<210> 36141

<211> 362

<212> DNA

<213> Zea mays

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<400> 36141

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aataaatctt ccaggatctt gatcgagtta gatgaccaga aagtagcatg gacaatttgg 180

aaaaaaaaatcc aattggaatc taccgttctt gattcattaa ttttaacctt gcctaacgca 240

tttcagtcta ctatattgggt acttgacgtt tcgatttatg tgcactcttt gatcattctg 300

taattcttgt aacatggtat tttattgcca tctgaaatgg tccacaacca gcaaatatag 360

tt 362

<210> 36142

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-A4

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 ttcaagcttt tccatggccg agatggaata gttccccttt cagaaagatc atatgtatct 300  
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<210> 36143

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-A5

<400> 36143

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 gaacctctac atcatctacg acaagggcat caagggccgc ctcaacctga tcccgtcgc 180  
 ctgtgtccgc gacatggtca tggccaccgt caagaatgga aagcccgacc tcaagaagaa 240  
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<210> 36144

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-A6

<400> 36144

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 gttgctagaa gattctcgac cgggactcta tctacgatga aatctcatag caatgcacct 180

gcaaaatcaa acggtttatc taggactggg gtacaaagaa aacttcactt ggatcgtcag 240  
ccaccgcaga agagtacaaa accgaccgag aacagcaata agctagctac aaatcgggtc 300  
ccagcccgga acagcccatg gaatcctgta cttaggcatt cacgcagctt gcctgaaact 360  
ggtcgacgag cagtacagaa ggtctcatca atcacagaga aactgtcgca aatgtcgggtg 420  
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<210> 36145  
<211> 453  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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cagcagcagc agcagcgacg actggcagaa gaagccgtcg ccctccgtcg gggccaagcg 180  
cgctctggac gacggcacca agagcgaggc ctcggggacc agcccggccg ncagagacct 240  
cgacttcgac cagcaccacg acaccgtcgc gccttccaag gcgcaagtgg tcgggtggcc 300  
gccggtgaag gcgtacagga agaacacctt ccaggcggcg gcggcggcca agaaggtcga 360  
gcagaagcag aagcagcagc agcagggagg cctgtacgtg aaggtgagca tggacggcgc 420  
gccgtacctc aggaaggtgg acctncggat gta 453

<210> 36146  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-A8

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cagttggatg ctgataccca ccgcaggtac atctatgggtg gccatgttgc tgactacatg 180  
aagaaccttg ctgaagagga ccagaaaaag taccagagtc acttcagtgc gtacattaag 240

aagggagttg aggctgatga aatagaagcg ctgtacaaga aggtccatgc tgccatccgt 300  
gccgatcctt acattgttaa gtcaaccaag cagccaccaa aggagcataa gaggtacaac 360  
ccaagaagc tgacatatga acagaagaag gccagcctca ttgaaaggct caaccaactc 420  
aactgcttcg gtggtgctga tgacgacgat gaagacgacg aagta 465

<210> 36147

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-H4

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acaggaagca aagtgggagc ttagcggttc gtgatctttc caatctggta aaaccggagg 180  
atatgatcac ctcggaacat ctctgacac ttcttgcaat tgttcccaag tactcccaaa 240  
aagactgggt gtcaagctat gagaaaattg acacattcgt ggtacctagg tcctctaaaa 300  
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<210> 36148

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-G1

<400> 36148

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tgtgccactc cactcggggc cgtcccacca ccgggaggcg ctaggctact atgtctctgc 180  
cctagcctag tcgccgtcgc gtcgtcgcag caccgagcga atgcgagccc aacatcacag 240  
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gct 303

<210> 36149  
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 <212> DNA  
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<223> Clone ID: LIB3069-050-Q1-K1-G10

<400> 36149

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ccaaggacac ctgcgcggac gaaatccgcg ccgcgtacaa gaacctcgtc aagaagtggc 120
accccgacaa gcacccgccc tcgtccaggc cggaggccga ggcgcgcttc aaggccatca 180
gcgaggccta cgaggcgctc ctggaccagc aggagaacag gggcggtgttc gagctgtgca 240
acgacggccg ggcggggtgag aggacgcgcg gcgccttcgg cggcgccggc ggcgggcggtg 300
gcggaggagg aggaggcctc ggcgccggcg tcggggcgcg catggagagg acgcgcagcg 360
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<210> 36150  
 <211> 406  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-G11

<400> 36150

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ctcgatccgc agagcaaagc gaaagcagca agaagcaaag caatggagaa ccttgcgagt 180
gtgctagtgc taccagcgca gttcaccaaa ctcaccttcg gaaacctgta catccgccgg 240
gccgggccgg gcagcatgga gataaccgag gagggcaggt gcgacctgga caggagatac 300
gtgagtaact tccccgtcta cgacggccgc ggccccgacg ccagccttgt ggccccgcgtg 360
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-G12

<400> 36151

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cggtgccact cgtttgccag ccaccgagtc atcggcaaata gaactggcgg ggtaccgagc 180

caagcaggaa ggccagtagc acacacgcag aagaagaaca cggcggggcca tgcacgccaa 240

aaacattgaa gtcttcagtt taccaacaca catgtcatga agcaaaacag cggggactcg 300

tccatgatat acaggttctt ggtacagatg cagagtggcc atgggacgga gagtcggata 360

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<210> 36152

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-G2

<400> 36152

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gttccagagc atgctgagcc accgcggcga cagcgggtgc cagggcgctt tctacaccta 180

cgacgccttc atcgaggccg ccagcaagtt ccccggtctt ggcaccaccg gcgacgagca 240

gacgcgcagg cgggagctcg ccgccttctt cggccagacg tcccacgaaa ccaccggtgg 300

atgggcgact gctccgatg gaccgtttgc ctggggatac tgccgggtga aggaacagaa 360

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caggctcgcc gggcaagcgc tg 442

<210> 36153

<211> 467

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-G4

<400> 36153

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gcgtggtcc tccccctcgc cgccgccgtc cttgtggtgc tcctcgctgg cggcgccgcg 120  
 gcggacgatg cctccagcga cgacgacgct gggacttcac ggacaccgg ctgctccaac 180  
 aagttccagc tggtaagggt gaagaattgg gtgaatggga ctgaaggtag aacttttggt 240  
 ggcctaagtg caaaatttgg agctcccttg ccaagagata ttcataagc aaaaagtca 300  
 tttgctgtcc tctcaaattc aattgactgt tgctccaact tgacatcaaa gtaacaagt 360  
 tcagttgcta tagcaacacg tggggaatgt gctttcacgg aaaaagcaaa tattgctcaa 420  
 gccagtgggt cgaccggttt actagttatc aaagataatg aagagct 467

<210> 36154  
 <211> 461  
 <212> DNA  
 <213> Zea mays  
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 cggcggcggc ggtcctggca ggcgcgctgc tgctgctggc ggcgggggcc gggacggcgt 180  
 cggcggcggt gagctgcggc gaggtgacgt cgctgggtggc gccgtgcctc gggtagcga 240  
 tgggcagcgc ggcgtcgccc tccgcggtg gctgcagcgg ggtgcgctcg ctcaacagcc 300  
 gcgcgtcgtc ggcggcgac cggcaggcca cctgcaactg cctcaagagc atgacgggcc 360  
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 tcgtcggtg gccatcagc cccacgtcg actgcaccaa g 461

<210> 36155  
 <211> 460  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-050-Q1-K1-G7  
 <400> 36155

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cggcgctgct gctgctggcg gcgggggccg ggaacggcgc ggcggcggtg agctgcggcg 180  
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 ggcaggccac ctgcaactgc ctcaagagca tgacggggccg gtcggggggc ggcgtcagca 360  
 tggccaacgc cgtcaacatc cccggcaagt gcggcgtctc cgtcggcggtg cccatcagcc 420  
 ccaccgtcga ctgcaccaag atcaactgat cgatggaacc 460

<210> 36156  
 <211> 440  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-050-Q1-K1-G9  
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 aattttctgg agaagaaaat gaaggatgac ccgaaattca cctatgacga aactgtgcag 180  
 attgcaatat ctgcgttgca atcagttctc caggaagatt tcaaggccac tgagatcgaa 240  
 gttggtgttg tgagaaaaga tgaccgcgtt ttcagagctc tcacgacaga ggagatcgat 300  
 cagcacctga cggcaattag tgaacgtgac tgagatgtca tatgctgcac atttcagcgc 360  
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 <213> Zea mays  
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 tcgacaggac ttacaccgac actgctggta tgtctatcat gtacgttacc gatctcttca 180

actcgtaaga cttcgagcac gacaagttca atgacttgct ccacgataag aacggtatca 240  
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<210> 36158  
 <211> 411  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-050-Q1-K1-H10

<400> 36158

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 caatgtttgc taaatactgg gtctagttca gtcaagccac aggaacctga tccnaaatgc 180  
 tttccaagtc ctctgttttc ggctgcgaa cttctgaaac atctnggaca ttcaattggg 240  
 gagctttctt atggctcagc naggctgcat atncctgcat atcgaaactt atgactatca 300  
 gccattcaaa tgccacaagc ctgctgctca aacagctgcc tatggcgctt atccttcaac 360  
 atactctggt caggcctata cacaacaaag ctacacacaa cctgcaacaa t 411

<210> 36159  
 <211> 309  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-H11

<400> 36159

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 gcggcggcgg ccgtgctggc gctggcgcg gcggacctga cgcacgacaa ctgctgaag 180  
 aacacgaagg tgacggtgca gaacctgtgc agccacgacg tgacgctgac gctggagccg 240  
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 gagttcccc 309

<210> 36160

<211> 289  
 <212> DNA  
 <213> Zea mays  
  
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 acccaccac ccgttcctcc cccaccccat cagcgtgga gccggcggtg cgtaagtccc 180  
 ccggaccctt ccgcggcggc gccggcggc gccgtatgcc agaggcttcc aggtttcatc 240  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-050-Q1-K1-H3  
  
 <400> 36161  
  
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 tttgggttgg tgtatcagct tttgatgcc gccaaaaacgc ctgtgagctg tgatgtgatg 120  
 cttc 124

<210> 36162  
 <211> 459  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-050-Q1-K1-F8  
  
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 caagtctcgc gcctctgccg cagttgccga ccgcaagcgg aagcggaccg ccgtcgtcgc 180  
 caagaccacc tcccttaaga accagatccg ctccaccgag cgcttctcc gcaaggacct 240  
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gcttcagaat caacttgctg tccagcggac attacagttt agagatagaa agataaaaatt 360  
ctttgagaga cggaagattg agaggatgat aaggcgactc gagaagcaac aacgttcaaa 420  
tggggatggt gtcaacaata atctgtcaaa attgcgaga 459

<210> 36163

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-D9

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gaaaggctac cacgtttctc gaggtccgga tcatgggtcaa aaaccatgat cctaaccgtt 180  
cattctcatg aaggtctaatt tgcaattcta gcgcagtcac ttttcacagg gatgattgct 240  
aaaactctcc atgacaccta tttcaatgtc ttgaaatagc attcacttct attatgatgc 300  
acctatgtag ataagggtccc agcgcatgtg acttttcaac tgctgactca tataattggg 360  
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<210> 36164

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-E1

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cagcaaaagc ttctcgacct tgggatgtgg atcgtgatgg atttgttatg ggagaagggt 180  
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ctgaatttct aggaggaagt ttcacatgcg atgcatacca tatgacagaa cctcatcctg 300  
aagggaaagg gggtattctt tgtattgaaa acgcattatc agattcagga gtaacaaagg 360  
aggacattaa ctatataaat gcccatgcaa catctacaca gatgggtgat ttgaaagaat 420

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442

<210> 36165

<211> 130

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-E10

<400> 36165

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<210> 36166

<211> 415

<212> DNA

<213> Zea mays

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ggtgctctgt acaagggctt tgtgccgaac tcagtcaagg tgggtgccctc aattgccatt 120

gcatttgtga cttacgaggt tgtgaaggat gtgctaggag tagagatgag gatatcagac 180

tgaggatggt cgttttcaac tgctattttt gtaggctttg ggaagttgtg tttttttgta 240

ggcagggcgg gtagaaggat atgaccgcgg ctccattcag catcagccca tgttggatat 300

atcatatatc ctgccactgg ctttaggtcc tagaattggt tgctgggtcg tgcaaaagta 360

ataaagtcgc tgtaaagctt attaagcatt tgctaactta tcaaagaaat ctatt 415

<210> 36167

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-E2

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ggccgaacag gcagagcgac cagtctccag agcgctcccc atggcgctcag gagctgcggc 120  
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 gaaggtccgg aaggtgctca agggcatcga aggcgtgcag gacgtgacgg tggacgcctc 240  
 gcagcacaag gtgactgtga cgggcaccgt ggacgccgac acgctcatca agaggctgta 300  
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 <211> 362  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-E3

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 tggacaatca gacatccatc gatctaacac cgtgaagata tactgaccca agagggaata 180  
 catttactac ccacgggtcca agtaccatga cattcactgt acatactttg ggacaacgtt 240  
 cctcatctg ttactgatga cttactatca cctaaagcca cagaagcttt ccaatcacta 300  
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 ta 362

<210> 36169  
 <211> 420  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-E4

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 taatcccga ctttttcact tgaactacac tttagtatgg caatcaaaca tcccttgag 180  
 catctacgag aatctttata aattgcacta tctaaattac catttaaaga gtcatttaca 240

ttaacacCGT gttctatata ttgtccatgt gcatcattat ttctatgtaa tgtatgtact 300  
 acaacgagcc attcacgtgc agaactcttt ggctaacgat actccgtctc tacatgacta 360  
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<210> 36170  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-E5

<400> 36170

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 aaaatgacat aaataatact ctgacatata tgagcatata actagatcca tacaactatt 180  
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<210> 36171  
 <211> 338  
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 <213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-E6

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 gatcaatttc aagaaaaaac ataacaaaaa aggggtggtga ggaacctggt aaggcttggt 180  
 tttgtcgaaa taccgtggga gaggggggtga ttaggacggt ggggtttcta tgttgaagtc 240  
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 tgcctatgcc tcgttgtaat gtgctgctgt ggtgggtc 338

<210> 36172  
 <211> 462  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3069-050-Q1-K1-E7

<400> 36172

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cgagatgaag cttaacgtca agacctcaa gggcaccaac ttcgagatcg aggcgagccc 180  
cgatgcgtcg gttgctgacg tgaagaggat cattgagacc actcagggtc agagtaccta 240  
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ggaaagcaac ggagttgctg agaacagctt cttgtttata atgttggtcca aggctaaagc 360  
atcgtcgagt ggagcttcta ccactactgc tgcaaaagct cctgcaactt tggcccaacc 420  
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<210> 36173

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-E8

<400> 36173

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gtggtgccaa ccttgagggtt aggatcgcac gtatcttcaa cacatatggc cctcgcatgt 180  
gcattgacga tggccgtggt gtcagtaact tcgttgctca ggcaactgagg aaggagccct 240  
tgacggttta tggatgatga aagcaaacca ggagtttcca atatgtttct gatctgggtc 300  
agggtctgat gaagctgatg gaaggcgagc atgtaggacc atttaacctg tgcaaccccg 360  
gcgagttcac catgctggag cttgccaaagg ttgtccagga caccatcgac cccaacgcac 420  
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<210> 36174

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-050-Q1-K1-E9

<400> 36174

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tcagtccctt cgttcacccg gatccatcca gccagccagc cagccatggg cggcaaggac 120  
tgcggcaacc acggcgagga cgacctgcgg cggctcgtgcc ggcgcctgct agcgatcctc 180  
ctagtccctg ccttgatcgt gggcgtgatc gcgctgatca tctacctggg ggtccgcccc 240  
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accaccacca ccaccacctc cgcgtcctcg tccctcctct ccacgacgct gcaggtgacg 360  
ctggcctcgc gcaacccgaa cgagcgcgtg nnggtgtact acgaccggct ggacgtgtac 420  
gcgtcgtaca agt 433

<210> 36175

<211> 140

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-F1

<400> 36175

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ataaaacaaa ctaaaagggg 140

<210> 36176

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-F2

<400> 36176

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aggtcgtgta ctgcccagag ctcttctaga tctctctgat ctggcctggt cggtcgacct 180  
acctccgtca tcgctgactc cccctgcgtc cgttactttg gatctgaata agatgggtgg 240  
gatctgaatg gtgggtcttag tacatcatgt atcgctcgca gtttaataata gcggtttatg 300

tgtggatctg tgaaccccat g

321

<210> 36177

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-F4

<400> 36177

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acattctcat cccttgatgg caacaggcca acacaacaag acctatcat cactgaccca 180  
atgctatttc cagagagacc ggtaagagc tcgccccaac tcaacagttc ttttgacagg 240  
gacaatggac tcgactaccc tgatgatgtg cttaccaagt ccatgaacat gcccatagtt 300  
caatccagcc tgccaactct tggcattaga aatcttgtga atgattcaat ctacaaagat 360  
agccatgaat tgtcagtcac aattaacact gaacaagaag ttaaagatta cccatccaac 420  
tgtggagatc aacctatgca aatgaatggg cctcaccacg acag 464

<210> 36178

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-F5

<400> 36178

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cggaatctc ccaaagtgcc atgatgcgtt catcgtcagt ggcttacact gtgctcctat 120  
gctctgattc ataacccaac tccatgtgct tcatgctata gcagctgagc tctggcatct 180  
tgattccgtg tacttacagt cttgaatagc tctcggacta tctaccatcc tcatgcccc 240  
gttaaagcgt gtctcgggcg gtccttcgcc ttgcagcttg atca 284

<210> 36179

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-F6

<400> 36179

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gggtggcttgg ctggagcccc catcctatgg actcgggtgga tgtaatcagt aggactggta 180  
ctacataaaa attaacggga caccgcacta gcttggtttt ggtgatgggt ctgaatgttc 240  
agtgggagac gttttctctg atttatcaat tgcgatttgc gtattatggg cgcttaagtc 300  
aactctacaa aatcggtccc cttttatctg gagccagttg attactcgat tgcgaatgtg 360  
atggatgatc taagcatact ctggtgcaag ggcctactgg gtgtgtg 407

<210> 36180

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-D8

<400> 36180

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gaaaacgtcc acatattgta gttggaactc ctggccgtct tttggaccat ttgacagaga 180  
ctaaaggttt tagccttaag aaaatcaagt atttgggtatt ggatgaagct gataaattac 240  
ttaatgtgga gtttgagaaa tcccttgatg acattctaag cgagatgcct aaagacagga 300  
ggactttcct tttttcagcg actatgacca aaaaggtaaa taaactgcaa cgtgcttgtc 360  
tcaggaatcc tgctaagggt gaagtgtcct ccaaatatcc tacagtagat tcacttaaac 420  
aagagttcta ttttgttcct gcagatgaca aggat 455

<210> 36181

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-C3

<400> 36181

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 gtccaaagat gaaagaaaaa tacttcttta tgaccttacc ccatgcacag aatattcttt 180  
 cagagttata tcattcacag atgatggggt acttggccat tcagaatcta gatgccgtac 240  
 tgaaagtaag gagatatttg tcatgcgtgc accaaagaat gcagtgggag gaggggctac 300  
 acatgcgcaa aaaaaagaca ggaaccagtc ttgtaagtca actgggttca agatccgaga 360  
 tatttgaag aacttttagg aagctttata tgcaaaaagc tgttttgaac gattttctga 420  
 agatgtaca 429

<210> 36182  
 <211> 440  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-050-Q1-K1-C4  
 <400> 36182

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 ccgtggtaga ggggaggatg ctgggggcta cgtgttgag gacgatgact agtatgacca 120  
 ggatgcgcat gtggctcgcc ttgaggaaga gaacctgacc ctaaaggaga ggctcttctt 180  
 gatggagcaa gaggttgggtg acatgaggcg ccgcctggag gctcttgagg caaaattttc 240  
 gctaggtggt ggtgttgag gtggcgagaa tgaagtggaa gaagctcctg ctcagaatga 300  
 tgcagagagg atccatactt ggccagagaa tagcagcgag gatgatgtat agatggttga 360  
 tgcgggaaact gagaaaggcg gatcacaac ttatggtgcc atgacttcag agaaatcttg 420  
 cggggatgat accaacaatt 440

<210> 36183  
 <211> 289  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-050-Q1-K1-C5  
 <400> 36183

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ttgagcgcact ataaagtggc cgatgagcta caatagtaca tgaccagtgc tttcgaacac 120  
atgaatgccca tgttcaattc tcaggactgc gaccttagga tgtgagcctg taccttagga 180  
gctaacagggg ttgatcgtgc catccttttg ataggctggg aagcatgata tcattgaccg 240  
agcattacag attctacagg tgcattcaat aattcttgtg caacaacgt 289

<210> 36184  
<211> 455  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-C6

<400> 36184

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gaacgttgat atgttacata tgtatcgtac tcatctaaca tcttaagtaa ccagagggga 180  
aaaagcaagt tgatctactg agatatattg aaacagagaa gcttatatat cacgatttag 240  
tgttattatt caagtattcc atataccttt ggcataataa atgaaacttc cagataattg 300  
at ttgctgta agaagagtga aaaaaaagat acagggttacc attctgatgt tatttcaagt 360  
agggttaagat tataacctga aaaacttggg gcaaggcttc gatttgcttg atagaccagt 420  
ttgaaatgac tccgtgggtt gtgcataaaa ttaat 455

<210> 36185  
<211> 449  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-C7

<400> 36185

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tgacattctc tgtcttcccg tcgcccaagg tgtctgatac tgttgtggag ccttacaacg 180  
ccacgtctc cggtcaccag ctctgttgaga acgcagacga gtgcatggtg ctcgacaacg 240  
aggctctcta tgacatctgc ttccgcacgc tcaagcttgc cacaccaacc tttggtgatc 300

tcaaccacct tatctctgca accatgagtg gtgttacgtg ctgccttcgc ttccctggtc 360  
agctgaattc tgacctccgg aagcttgca gtaacctgat ccccttccca cgtctgcaact 420  
tcttcatggg tggatttgct ccactgacc 449

<210> 36186

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-C8

<400> 36186

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ggatctgtcc atggcgctact cgtgcaacca cgtctgctat ggagcacgcc gaccaaccgc 120  
cagatatgct tgatggaagc acgcctccgg cctctccgag aagttcaccg gacgctgcga 180  
cagcgtcgag cggcgcggtg aggtgcggtg cgactccctg cactcttcac agtgcggtgc 240  
gagaagatcc aggagcaggt cgatgtcgct gcactctgca gtgacgaaca tggcattgcy 300  
ttggagggga agcgcaccga cctcgagcaa tggcgggccc atctcgtaaa gcggtcgag 360  
gaggtggcgt gtgtcaacaa actcctcgag cgggaacgta gagcggaatc cgtcgtaag 420  
cccaccatct tcggcactta cacggcgggc cccct 455

<210> 36187

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-C9

<400> 36187

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ggatcatggg aatacagggg gatcactgaa agggaccttc ttggggaggg tactggccat 120  
gaaaaagtca tttgccatct ttaccacccg agattttcac cgttgaagaa ccatggtaac 180  
cctttaaaag gcctttgccc aactttatgg ggacacaaaa ttttaaaagc ttgactctaa 240  
aaatgctaca tttttt 256

<210> 36188  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-D1

<400> 36188

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 gcaagatccg agagatgcgc aagcagaaca agaaggagct cttccgcgcc agcctctgag 180  
 gctacgacga cctcttagac cacgcccacg tccactccca aaatccgcaa gccaacagcg 240  
 cccagcccaa gcttggacga cctgccccg tcggcgaccg gcgaccgctc cacgcccgcg 300  
 accactcccc aacgggaggg aagaagttcc tgagctactt gcagtgtga atcaaggcct 360  
 gaagaggagc tgccgcaatg ctaagcctga gtgcctgcgc tttgtcgcag cagaacactt 420  
 gtgagcaatt a 431

<210> 36189  
 <211> 225  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-D10

<400> 36189

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 cggcggctgc aagatgttcc ctgacgtgga gaccgccggc gtcgccagcg tgaagccac 180  
 ggtcctcgcc gcccccgcca ccaaggcgag cgccggcggg ttcca 225

<210> 36190  
 <211> 265  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-D11

<400> 36190

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 tcccgtcgtg tctgtggcct gtgtaggctg tctgtagtat actgggttgt tggatgtatg 180  
 cgttctggcc gcaagactga tgtcatgctg ttgctgctta ctacagtttg cagtctgaaa 240  
 taaaaacttg tttgatgagc actgt 265

<210> 36191  
 <211> 273  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-050-Q1-K1-D12  
 <400> 36191

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 gatgctgaag gagtctgcgg tggagatccg gcgcgcgttt gaggaccacc gtggtctaac 180  
 cccgggctcc gacgatgcag cgcgtgccct cgccgacgcc cgcgaggcgg cgcacttcat 240  
 caccatattg atagtccagg ccacacgcgc acc 273

<210> 36192  
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 <213> Zea mays  
 <223> Clone ID: LIB3069-050-Q1-K1-D2  
 <400> 36192

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 aaaaaaaaaa aaataaaaaa aaaaaaaaaa aaaaaaaaaa caataaacat aaataaaaaa 180  
 aaaaaaaata aatatgggat atctatgaaa tggctaattg aaattacaaa cataatccaa 240  
 agacaattgt aatagaag 258

<210> 36193  
 <211> 433  
 <212> DNA  
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<223> Clone ID: LIB3069-050-Q1-K1-D3

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gcttttgtgt tcgggttcac gtcgtgtcct acgtggcgcg gcgggccccg cctagtaaag 180  
gagcgtagga gcgtcgtttt gtgttggtgt cgaataaata atgtgtctgt gtgccgatcc 240  
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tggggctggg ccgtaaagct cctgtgtcgt ttaaataat gtgtactctg tactgtacca 360  
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<210> 36194

<211> 219

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-D4

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tggtaatctg ggcgtaacct tttgctctgt acttcctatg atgatgtctt ctactggagc 180  
ctgctttgac agatctgggc ttagccttaa aaacaataa 219

<210> 36195

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-D5

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gtagaggcta atctcaaaca gcctggtgaa ccagaccgat cagatgaacg tggcccttag 180

ggactgtcca ttcacaggg aggccaaacc caatggatca ttcactgtac tagatgaagt 240  
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gcacatgaaa gccatt 317

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<211> 452  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-050-Q1-K1-D6  
  
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<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-050-Q1-K1-D7  
  
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ccagtttttg attggaacat gcagccacag ccaaaagtag ctgaagcgat tggagttgta 300  
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380

<210> 36198

<211> 342

<212> DNA

<213> Zea mays

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<400> 36198

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tacaggccct caaggctaaa gacgccccaa agatatccgc gcacactgaa gaggctgttg 180

gatcgctcta gcatgagccc gatgcacacg tggatcatac gagcgacact acgacttcga 240

ctgccagaac tgactctggc cttacgatat tgaagatctg atgcatgcat ctacgactag 300

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<210> 36199

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-A11

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cgcacaccgc tgatatggtg ggccttata aaagggtggc tactacactc atgtaaggct 120

gacagccctc aaggcaggag ccgccccaaag ctaatccggg cacactgcag cggctgttgc 180

atcgctctac catgcgaccg atgcaaacct ggatcatccg agcgacacta cgacttcgac 240

tgccagatat gaccctgggc ttaccatatt gaatatt 277

<210> 36200

<211> 278

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-050-Q1-K1-A12

<400> 36200

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cgtgtagtca tcagccttct gatcgtcacc catggccact gccgaggtcc agaccccgac 180
cgtcgtggcg accgaggaag cgccggtggt ggagaccccg gcttccgccg ncgtcgtgcc 240
cgaggaggct tgccccgtcg ncgaggccaa ggtggaag 278

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 <212> DNA  
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<223> Clone ID: LIB3069-050-Q1-K1-A3

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cacatgatat gccaaatggc ttgggtttga atcattcttt caactggctg accatgaact 180
ccaatagatc atcaaaaatc aagcccttat gggaggggag ctgtgacgat gttgacatgt 240
gtgagtttgc agacaaggat gaatatgcac cagtaggata tagctataat cctatgtcag 300
aaccatttga taactgggaa aacaagtttg acacaagccc agagcaaagt tctcatgaac 360
caatggaaat tggatgaattg gtcatacatg cttaaagcag gataactgag aatgat 416

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<223> Clone ID: LIB3069-050-Q1-K1-A7

<400> 36202

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tacttacgtc ctaagctttg tgatttatac gagaacgatt caatttttga caaatttgaa 180
tgctgtctca gcggtgatgg actccatggt gcaactgggt cttatagtaa tttgtttcgt 240

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gttttttggtt gttctcctga aagcgtggag gcatcaacgt tggaagccag cagaaatccc 300  
atgaggcgac aggttggtta tccagcaagg cctgcacgga ctctgaccg tgctgtgagg 360  
agaggtggag aaaacacaat cgttgacgcc agcggaaact cttgcgatct ttcaacaaag 420  
ctgttccatc ttgcgtggca cccaactgag aac 453

<210> 36203

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-A8

<400> 36203

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aagggtgggt gaaccgcgag agaggggcag ctagcttctt tccttcccag gcgcgcggga 180  
gaggttagcc gccgtataag tagacagcca gccagccatg tcgtcgggtg cgtcgtcgtc 240  
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ctactactac agcagccacc cgacgagcgc cagcaccctg cactaccacg agggcacctt 360  
cgacgggcgc agggccatgg gccggagcag caggccgctg tcgctgcaga ctgtggagct 420  
gaatgtgcgc atgtgctgct cgggctgcta gcgcgtggt 459

<210> 36204

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-B1

<400> 36204

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gccgcagctg cgaggtcctg accccacatc ggcgagcggc ggcggaaccg ccggaggcaa 120  
aggcaagatg ttccgggcgc gcgcgaaaaa gagcgacatc accaagtact acgagatcct 180  
cggggtgccc aagtcggcgt ccagaaacga tctcaagaag gcctaccgca aggctgctat 240  
aaagaaccac cccgacaagg ccggtgacct cgaaaagttt aagga 285

<210> 36205  
 <211> 284  
 <212> DNA  
 <213> Zea mays  
  
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 ccattaccga aagcacatca ccgcgtacgg tgactgcaac gagcgactgc ttacatgccg 180  
 ccacgagact ctcgacatca acacctgaag tctagtgcgt ctggaatcag ctctacgtct 240  
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<210> 36206  
 <211> 168  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-050-Q1-K1-B11  
  
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 <211> 335  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-050-Q1-K1-B12  
  
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 gctaggggtt tggagtgagg atcgccgatg tcgacggctc ccaggcgccc cttccgaggc 120  
 cgcggcgccc cgccccctgg caccggctac gtccgcgcgc gaccgcgccc tgccccaggc 180  
 cccgccgacg gcgccaagac cctgcgcaag cccgtcttca ccaccgtcga ccagctgcgc 240

ccccagacgc acggccacac cctcacgcgc cgcgtcatct tcggccggac cgtccttgac 300  
aagcccttca cgcacatcgg ccggacccgc gtcgc 335

<210> 36208

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-B2

<400> 36208

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gcgcgatctc cggcaccagc cgctggaagg gcagcttccg gatgagcagc tccgtgctct 120  
tctggtactt gcggatctcg cggagcgcga cggtgccggg gcgaaacctg tgccgcttct 180  
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gcgtgaggcg tacctggggg gtctcttcga ggacaccaac ctctgcgcca tccatgccaa 360  
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<210> 36209

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-B3

<400> 36209

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acttactgac caccagttca caagaccagc aggccgtggt aagaagctcc aagaggaatg 180  
ggctgttcca ctgaaatctg tggaggacat tagtgagcgc ttcacaaact tctgtcaagg 240  
gaaactcaca agcagcccat ggtcagaatt ggacggtctt caaccagaga caaagattat 300  
cgatgaccag ttggtgaata ttaaccagaa ggtgtcctt acaattaaca gccaacctgc 360  
tgtaaatgga gagaaatacg actcgcctac tgatggttgg ggtggtcctg gaggcta 417



<210> 36210  
 <211> 372  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-B4

<400> 36210

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gacataaggt gacttctgcg catggatatt ctattagata caatcaacct ttccaaaaaa 180
gtgttcagag catgttaaga gaatcaacct tacatccaga aaggctatgc tgacaagaaa 240
tgttatgaaa agatcccacc gtctatcacg gtgaaccttt ctgaaagctg atctgagaca 300
aactcgatat gcgggcaaca aggaccggag gctctttctt ccatgaccac gccatggtgt 360
atgcgataaa tg 372
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<210> 36211  
 <211> 310  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-B6

<400> 36211

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ccgtcgactt acgggagcgt cccgatccgg cgttgacacg tgtgatcgca accctaactg 180
gatgtaatgc attgtagcag cgtggcctga gtcgtgaccg tgtcttttct cgcgcttcct 240
tcaacgcctc tcgctaaaga tccaccgatt tttgctggga gtcgagagcg tgataccggg 300
acgacgacca 310
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<210> 36212  
 <211> 455  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-B7

<400> 36212

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gagctatcat tctctggcga tgatcgtggg actgtgaaga ctgtagtcca atacttcatg 180

gagacttatg gatttagcat tcagcacacc actttaccgt gcttgcaagt gggcaatcaa 240

cagagaccaa attatgtgcc tatggaggtt tgcacgatag ctgaaggaca gcgttactca 300

aagcgactca ttgagaaaca gatcacccgt ctactgaaag tgacctgtca gcgacatcaa 360

gagcgtgagc tggacatttt acagactgtg catcacaatg cgtactatga ggacccgtat 420

gcacaggaat taggtctaag aattgatgat acgcc 455

<210> 36213

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-050-Q1-K1-B8

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ggcccaagcc aggccaacag ttttgaggtg gtaatggcgg accagctacc aaccactgt 120

ccttcataag ctaggtggcc agttccacct gagctccagc ttctctgaag gtgtacgggc 180

ccgtaacatc tgcctttctt tctcatctta tgaaaggaga tttgccacga ggaactacat 240

gacccatagc ctttggggcc cttcaatgtc tgttagcggg ggcacatg ttccagtgt 300

gccgactccg ctttttgcca atgctccagc cgagaaagggt ggcaaaaact tcatgattga 360

tttcatgatg ggcggtgttt cagctgctgt ttcgaagact gcagctgctc ccattgaacg 420

agtgaagctg cttattcaga atc 443

<210> 36214

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-B9

<400> 36214

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 cgaagagagc tacggcgccg ctacgtctca ccacggtggt gccggcgccg tcgcgagac 180  
 gtacgcctac gaccagcagc aggcctacaa gcacaaggac ccagcaaggg cggtgtacgg 240  
 tgctcgctac ggtggtgg 258

<210> 36215  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-050-Q1-K1-A1  
 <400> 36215

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 ccactgcgag acggggaacg ttagagtgtc cgggtccggtc acgctgtccg gcctcaacga 120  
 ggggaagcgg gacctcagcg accagaagtg gacctaccag atcggccttc acggcgagtc 180  
 gctgggcgtg cagtcgctcg ccggtagctc gtccgtcgag tggggcagcg cggcagggaa 240  
 gcaacccttg acatggtaca aggcctactt tagcgcgccg tccggcgacg cgccggtggc 300  
 cctggacatg ggcagcatgg gcaagggccca ggcgtgggtg aaccggcgtc acatcgggcg 360  
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<210> 36216  
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 <213> Zea mays  
 <223> unsure at all n locations  
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 agccacttta cctagctagt gttccggtg attccactgg cgacgattcg agtttgagaa 180  
 gcacgtgggg gcggagtcga agaaccagaa cggtaacatt ctntccacca acgacaagtt 240

gctctacgac ctgtttcacg agctcagaaa ttggccccct tgtgcgagg agtttcgggc 300  
gaacgccggg gtactcatga 320

<210> 36217  
<211> 306  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-G11

<400> 36217

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tgaacctgga cttactgcmc tcgctgcmc ggggtgtgcc cctcagctac agccccacgg 180  
cgttcgccat gctggacgtc accacgcca gggctcttoga caacgcctac ttcaacaacc 240  
tgcgctacaa caagggcctg ctgcctccg accaggtgct cttcaccgac cgccgctccc 300  
gaccca 306

<210> 36218  
<211> 408  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-G12

<400> 36218

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tccaacctat tcaccaccgc tgtcagaacc cttcttgtga caaaaagtta agcgagcgtc 180  
ttcttgacct tgcaagactt tttgtccgga gataatctcc tacgaattac cctcttgcat 240  
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tatccctctt gagcttgga cactctcgca gctagtagta gctatatatt attgggttcc 360  
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<210> 36219  
<211> 358  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-G3

<400> 36219

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aagaccaaac taacaatcac ctccatatca agctctacaa ctaatatagc tataccaaca 180

tttaacaaa tggccctgct ataacaacca ccttacttgc aaacccttga cgtaacctaa 240

attacaccac tagtcatgaa aagctcttct aaaccatgac ctaaacctga aaaggtccta 300

ctacacgtac tttaaccaaca ggtgcgcact ctaataaagc aactacacca ccccttac 358

<210> 36220

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-G4

<400> 36220

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cggcgcctgc cccaaagctt cagtggctgc tgcgacctt ctgttctccg ctcttggctt 120

tgggtgatcg ccggcggtag ttgtagcggg gtatttatct gaggaagaa gaaactatac 180

aattcatcat gtcaggaggg tegtctgaat cttccccgtt atctggacaa aatagcctta 240

gttctctatc aatttccaag gacaatgaac tatcttcaga gtctggctgc ttgtccattg 300

gtgtactaag cgcttctgga gaccttgctt agaagaaaac tttccca 347

<210> 36221

<211> 447

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<400> 36221

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gagtgggaag agatgatgga ttcctgggggt tctaaaatga tttctgcaat tgaggttggt 180  
gctgagatgg ctgcaatagg ctttggccta tcgaaggatg catttacttc tttgatgaaa 240  
gagggaccac atctcctcgc accaactgga agtgacctgc agcgtcatgg ttctgagggc 300  
accgtttttg ctggattcca ctatgatctt aattttcttga cgatacatgg ccgaagtaga 360  
ttcccaggcc ttaacatctg gttaaggaat ggtaaaaaga tggagggtgaa agtccctggt 420  
ggttgcccttc taattcagtc tggaaaaa 447

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<211> 161  
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<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-G6

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ccaacacccg agtggatgag ctaaactcag aacctgctat tcttgaggta ttacctgctc 120  
cggaagagat catggattac tgtagatcta aaatgataac a 161

<210> 36223  
<211> 240  
<212> DNA  
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<223> Clone ID: LIB3069-049-Q1-K1-G8

<400> 36223  
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actatacaaa attgatatat tatctatatt atattagtga tatattaatt ctactaattt 180  
aaaatatttt taagagttta tattataatt tagagagcag atgtacattt atgggtaggc 240

<210> 36224  
<211> 225  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-G9

<400> 36224

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tagctgggta tcttgaactg acgttcatgt gacatggcaa tggcacatga acatacgttt 180  
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<210> 36225

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-049-Q1-K1-H10

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aagtgtttga agttgtgact aaagctatga ctagttggag tcttgagatg tttattttct 180  
atatgccccat acacttacat gactaggaag tttttttttc tctagtatat ttaattcttc 240  
tgcactaggg caacaattat catatattcg gaattcatgg ttcctttgta ttttagttta 300  
tgttggttgc catcagtttt ctgttcatat taaattatgg gttcacatat ataagctgca 360  
tgtttggtcg aattgttaat tttgcttgtc aaggaggatg cacacctaga ttagacaang 420  
tggttcttat gcatgtagtc agt 443

<210> 36226

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-H12

<400> 36226

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caccctgacc ttgactgaat ctctgtgtgg cttccagttt gttgtgactc acttggataa 180  
caggcagctg ctgatcaaat caaatccggg cgaagttgtg aagcctgatt ctttcaaggc 240

gatcaacgac gaaggcatgc ccatgtacca gaggccgttc atgaaggga agctgtacat 300  
ccacttctcg gtggagttcc cggactcgct gagcccgag cagtgcaagg ccctggaggc 360  
tgtgctcccg cccaagccgg tgtcgagta caccgacatg gagctggacg agtgcgagga 420  
gacgatgccc tatgacgtga acatcgaagc gga 453

<210> 36227  
<211> 366  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-049-Q1-K1-H2  
<400> 36227

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tgaattggaa attgccaaaa gtgagctgac tgaacttaat aaggaatgcg ttgaagcaat 180  
ggagactcaa ctcaagaggg aggagtttca agatgaggag atgcctgatg tcatgaaatt 240  
ggacatcata aacttactgt aggcctgac gacgataaat ctttaaggcc aaagcaccta 300  
tggctttgcy ttcaagttga acggtgcttc acacctatga acgcctgttc tttccttttt 360  
tgaata 366

<210> 36228  
<211> 425  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 36228

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gggtcacac gatcggcatc tcccaatgca actccttcag cgagcgcttg tacaacttca 180  
cggggcgcg cggggccgac gacgcggacc cgctcgctgga cccgctgtac gccgcgaagt 240  
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gcttccgcac cttcgacctg agctactacc gcggcgctgct caagcggcgg ggcctgttcc 360  
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<210> 36229  
 <211> 411  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-049-Q1-K1-H5  
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 ccaagcgcgt cactatcatg cccaaggaca tccagctcgc gcggcgcacg aggggcgaga 240  
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 ttcgtttcgt ggcttcctta tcctgtagga gtaatgttct agatgtcttg gcttcagtgc 360  
 aatggactgt gtttgctcat ttctgaaatt tatcaatgga cttgttcttg c 411

<210> 36230  
 <211> 380  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-049-Q1-K1-H8  
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 gtgtcatgtg tgattgcttg ccccgttgga ggcgcaaccg atccggcgaa ggtggcgtag 180  
 gtagctaagg agctgtatac catgggctgc tcggagatct cgctcggcga caccgacggc 240  
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 gacaagattg ccgttcattt ccacgatacg tacgggcagg cccttgccaa cattctcgtc 360  
 tcccttcaaa tggggatcaa 380

<210> 36231  
<211> 349  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-H9

<400> 36231

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cgttgagcgt cacgaagagc atcccggaga ccgggggaggt catcggcgtc ttcgagagcg 120  
tgcagccgtc cgacaccgac ctccggggcca aggcgcccaa ggatgtcaag atccaggggg 180  
tctggtagcg tcagctcgag tgattcgagt gtctaactgc taggtgtccg accgtcgtca 240  
tggatcttgg gaaggtgtat gtataccatg gaaaactttg gagagcagag gaggaatcgt 300  
gtatgtaatg tacttggtta tgcaaattcg ggctgtcgct tttttactc 349

<210> 36232  
<211> 289  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-F9

<400> 36232

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gtcggcggtg ggccgggtga cggagctcat gtcgctgacg ctgttccggc tgccggggct 120  
gacgggcgcc atcccgcct gcctcacggc gctgtcgaa ctcagttcc tcaccgtctc 180  
ccacaccaac gtgtccggcg ccatcccgga gtcgctggcg cggctgcgcg gcctcgactc 240  
cgtggacctc tccagcaacc ggctgacggg cggcatcccg gcggcgctc 289

<210> 36233  
<211> 315  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-E10

<400> 36233

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aggcggcggc agcgggaggc ctccgaaacg cagcggaaca cctgaggagg cggcttcccc 120  
 ccgaatgctc taggaggagg cgcggcgccc gcgagatgg ggtccaagta cacgcgcggg 180  
 tgctgcggct ggctgatcgt ggcgctgatt gcggcgctgg tggccacggc cgcgatgttc 240  
 gccatcatga agcgcaagcc cggggcccggt cacatcaagc ccgtgccggg gccggggccg 300  
 gcggggggcca tcgac 315

<210> 36234  
 <211> 352  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-049-Q1-K1-E11  
 <400> 36234

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 cgctcctcct cctcccagcc gcagctgggc gcggcggcgg cggtcctggc agcggcgctg 120  
 ctgctgctgg cggcgggggc cgggacggcg tcggcgggcg tgagctgcgg cgaggtgacg 180  
 tcgtcggtgg cgccgtgcct cgggtacggc atgggcagcg cggcgtcgcc ctccgcggcg 240  
 tgctgcagcg ggggtgcgctc gctcaacagc cgcgcgctcg cggcggcgga ccggcaggcc 300  
 acctgcaact gcctcaagag catgacgggc cggctcggcg gcggcgtcag ca 352

<210> 36235  
 <211> 439  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-049-Q1-K1-E2  
 <400> 36235

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 cggttggcat taaaatggaa caagcatagt gtcagggcct aaggaggccc acggaggggc 120  
 tgcgacagca gcagccatgg gccctccaag ggggattaga taaggatagt tagagataag 180  
 attagaagat tagttgagat tatttaggag attagttgag attatctagg aagggttatca 240  
 gttagtagtt tgttgagagt ttttaggaga gttttaagga gataaggatc agtagctaga 300  
 taggggcggc caatcggcct atttatgtaa tcaatggatg agaaataaag caagcaagaa 360

cggggaagac caatggggca tctnctgaga gaacgagcat attcatttat attgctctgg 420  
aagtatttaa ctagtttac 439

<210> 36236  
<211> 447  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-049-Q1-K1-E5  
  
<400> 36236

tcgcccacgc gtccgcctgg catccgttta gagtttgttc cgtccaggca accaaaaggg 60  
aagggggccc gtcgcgaga ggaagaggag agcagaggag gatggctcgt acgaagcaga 120  
ccgcccgaac gtccacggga ggcaaggccc cccgcaagca gtcgccacc aaggcggcga 180  
ggaagtcggc gccgacgacc ggcggcgtga agaagcccca caggtaacagg cccggaaccg 240  
tgggcgctgcg cgagatccgc aagtaccaga agagcacgga gctgctgacg cgcaagctgc 300  
ccttccagcg cctgggtgcgc gagatcgccg aggacttcaa gacagacctc cgattccaga 360  
gccacgccgt gctggcgctc catgaagccg ccgaggccta cctcgctccg tctcttcgag 420  
gacaccaacc tctgcgcat ccacgct 447

<210> 36237  
<211> 447  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-049-Q1-K1-E6  
  
<400> 36237

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agtgtccta ctggcacatg tgctgtatgt gttgttggtg gtgaaaggtc attgattgca 120  
aatctgtcag cggcaaactg ttacaaatct gagcatctaa agagaccaga gaactgggca 180  
ctagttgaaa aggcaaaata catctacatt gctggatttt tccttacagt gtcgcctgat 240  
tctatccagc tagtcgctga gcatgctgca gcaataaca aggtgttcct gatgaacctc 300  
tctgtccct tcatttggtga gttcttccgt gatgcccaag agaaagtcct cccgtatgct 360  
gactacatct tcggcaacga aactgaggca aagatctttg ccaaagtcag aggatgggag 420

actgagaata ttgaggagat tgctttg

447

<210> 36238

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-E7

<400> 36238

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tgtgggtcaat tctcgagcgt attagcagta gacagtagta gtagtctggg tcggaaccca 120  
gtcaagctca gcgcctgggt tgcgtttgga ctccagtgcga gaattgcgta gaggatttag 180  
aggaagagcg gagctgagct gagcgaggca ggagtaaagg acaacctgta tgtcactgtt 240  
agtgggcca gtgccacgtg aaagtcaggc actgttggtg cccattgacg gccggacttg 300  
ccagcgacgc ggatgggcga cgtgaacgtg tctggccgag cagtgcgctc gtcacctccc 360  
cccaatgggc catggcctct tccgcgaaag cgtgctcccc tgtaagtatc tgatttggat 420  
gctagccaaa gctgctggat gatta 445

<210> 36239

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-E8

<400> 36239

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atgatataag ttctccgact atggattgcy acaataattc aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaatata aacacaagca tacaacaaaa 180  
taataataaa taatagagta acctaaatta aattaactgg tccgcagatt cacaactttc 240  
actactggga aacccc 256

<210> 36240

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-F10

<400> 36240

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tggttccgag aacgcgctga tggatgagct gcaggcactg catgagcatc tgaaagctca 120  
tggcccctac atcaacggct agaacgcac accagctgat cttagcatgg tgacaaagct 180  
cttcacacct ccaggctcga ctggagcatg acaaaggctg gcagatgccc gaacatctaa 240  
ccaacgtcca cgcctacacc aaggctgctt tcagccgtga atctgttgtc aagactaatg 300  
catacgatga gcacgtgatt gcaggatggg c 331

<210> 36241

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-F11

<400> 36241

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agggttacgg ccaggaaatg ccggaggacg gcgacatgga cggcgctgac gttgatatgg 120  
ctgcctccgg cgatgacgcg gcgaagctgc aggagctcga cgagatgaag cgcacgctga 180  
aggagatgga cgaggaagcc gccgtcctgc gcgatatgca ggccatggtc gccaaaggaga 240  
tgcaaggacg cgaccctagc gcatctacag ctgacgcaaa agaacaggtg gatgccccgg 300  
ctgtgcatgt tggaaatgtg gattatgct 329

<210> 36242

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-F12

<400> 36242

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aagaggacga ggaagaggag cgccggaatt gtaaagatgt tcctggtgga ctggttctat 120  
ggggtgctgg catcgcttgg gctgtggcag aaggaggcta agatcctctt ccttggcctc 180

tacaacgccg gcaagaccac ccttctccac atgctgaagg acgagcggct cgtacagcac 240  
 cagtcgacgc aataccccac gtgagaagag ttgagcatcg ggaggatcaa g 291

<210> 36243  
 <211> 383  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-F2

<400> 36243

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 cgacacagga tcgccgccgg acctcctact ctccctcctc ggccgccgca gcggagctcg 180  
 cgcggtcccg gtccgagggg ctccctcgca gcgccgagat cgcagcggcg cggcgcgagg 240  
 ccgctgcccc cgcgcggggc gacggctccg agctgctcct cgtcctcgcc gtggcgcccc 300  
 gcgctcctact gcttcttctc ctcgggcttc tctaagccag cggcggcctg ggtagcgcg 360  
 tggctggagt ctggggcccc ctt 383

<210> 36244  
 <211> 447  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-F5

<400> 36244

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 cggcagccac ccaaagccca ggaccgcctc accgccaatg gccgaccgcg tctaccccgc 120  
 cgcgaagccg aaccgcctc caggcgcggc gggcaacagc aacggcgcgc aggcgtcgtc 180  
 gttccctgcg cccaagtgcg agatgtacca gcggcccatc taccgtccgc agggccccgc 240  
 gaagcggcag cgcgggcggt cgtgccggtg cagcttgtgc tgctgcttct gctgggcgct 300  
 ggtggtggtg atcctgctgg cgttcgtggg cgccgtgtgc ggcggtctct tctacctgct 360  
 gtaccggccg cagcggccgt cgttcagcgt gtcgtcgggt cggctggcgt cgctgaacct 420  
 gacgtcgtcg gcgacggcgc ccgtgct 447

<210> 36245  
<211> 442  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-F6

<400> 36245

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tggaaaatta tcggaggaca tgatatcatc acatgacatg aaacgactag aggcgtattc 120  
aaacaattca aaccgattat ccatgtgatg ctggatctag taccatgct tgcacatcag 180  
tattttttac acaggcttcc aatgtgatta catggtgcat atacagtctg tatgtttctgt 240  
ctaagcctgc acgacaacga cataggcact gcgaatggag atctcgctat agaaagggca 300  
catggtctat caaacttcat acagacaatg aagaaactgc atggttacct tcataacatt 360  
ggaaggaaaa aaatcggaac aaccttacct cgactgaaat acattgaaat gccctctttt 420  
agcaaatcga tggatgagga cc 442

<210> 36246  
<211> 448  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-F7

<400> 36246

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cgggtaccgt cgaatccggt gctgaattcc gaggtctcac cggcgacagt gagccaaggt 120  
cctccagacc atcctcccgg cgctcgctcc tgcgccaca gccgctggc caacggcaag 180  
caaacgccac ggaatcccgt cgctacctcg ccgagccagg atgaccggtc cggggcaggg 240  
aaagagaacc agtcgtgcag caacacgccg agcacgagca gccgccagtc gccgtcgag 300  
cagaagacgc ccaagtccag ggcgacgcc cgcctgaca ggcgcagggg tactcctgct 360  
cagacaagcc ctgctattgc gcctgaccgt aaacggcctg ccgacgctgc tgctggcact 420  
ggcagcaact ctgacaaagt gacgacct 448



<210> 36247  
 <211> 451  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-049-Q1-K1-F8  
  
 <400> 36247  
  
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 cctggatggc cgtcctcctt gataccttgc ctgcgagtg ctctcggatga gctactttgt 120  
 tttgatttat caggaaatcc gtttgettca tggtatgcag gtcagatct gattgctgga 180  
 ttcggcatct tacgggcttg aatagagcta ggactgggag aaaacaacaa acccgcggtg 240  
 gatcctgtat cggttagtcc ttgccttcaa ggttcatgtt gttttgtttt ggtggtcgag 300  
 catcgcatgt tctgcttctg gttccagatc tggagaaatt tctaagtcgt cgtcgtcgtc 360  
 gtcgttcggt,tcggagcgga tctgaggcga cgatggctgg aagcggcggg atctcttggt 420  
 ctgcaatcct gcttcacctc gatggatgat g 451

<210> 36248  
 <211> 354  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-049-Q1-K1-E1  
  
 <400> 36248  
  
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 tggcacccaa ggccggacggg aagcgggctg ctaataaggc ggcagaggat gagcccgca 120  
 cagagaaggc ggataatgct ccggcgggga agaagcccaa ggccgagaag cgcctcccg 180  
 cgggcaagtt ctccggtaag gagggcggct agggcaagaa ggggaaaaag aaagcgaaga 240  
 agtccgtgga gacctacaag atctacatct ttaaggtgct gaagcacgtg caccctcgaca 300  
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<210> 36249  
 <211> 369  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-049-Q1-K1-C1

<400> 36249

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tatatcgctt gcgcgcttat cgtagccata ctgtgactgc tgtgcagctt cggagaacgc 180

tagcaacatg aacatgcctc ttggcttggg gcaccaacct gtcattccat caacacgcag 240

catccaatga gactagagaa aacctgtaa cattttacca agtgctaata gcacgagctc 300

atgtaacttc tgcagcgact atcatcccca atattccagt gcattgcctg actttactga 360

gacatctta 369

<210> 36250

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-C10

<400> 36250

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aaggccactg ggctcgccat caagcactcc ctcgccagc cccacccggg gaagctgggtg 120

ccgttcaacc cggagtacca ggacgagtcg gtgctgtgga cggagagcgg cgacgtgggc 180

aagggcttcc gctgcatccg catggtgaac aacatccgcc tcaacttcga cgccttccac 240

ggcgacaagg gccacggcgg cgtgcacgac ggcaccaccg tgggtgctgtg ggagtgggac 300

aagggcgaca accagagctg gaagatcctg gcctggggcg acgaggccta cgccgcggga 360

ggcatcagcg gcgtcaacgc gccc 385

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<211> 359

<212> DNA

<213> Zea mays

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cctcgggtgc gcgcagcagc tcttcaccgt cgagcagtgg ctgccaccg acgcgtcgcc 180  
ctaccgcctg tacgcggtcg tcgacaagtg caagacgaag cggcaggagc cgcgacgctc 240  
gccggccggc gaggccgagg ccaccgtgac cgtgctctag gtacgaccag tagtaaatca 300  
tcgacagagg ctagctcctg cctctgctgt gtgtaattac tgtatgtgag tgaccgatc 359

<210> 36252

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-C12

<400> 36252

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tagtcacaga cccttgatct ttcttcgacg cgccccggg catggcgaac cgcagtgttg 180  
ccatgggctt ggccctcgcg ttcgtggcca tgaccgcgct ctggtgcgcg ccgggcgccc 240  
cggagttgcc ccggtggag cactcggcca ggagcgaacg atcgctgaag ctgctcgtcg 300  
tcggggactt gggacgcagg gggactcaca accagtcccc gggtcgagac ccgatgggaa 360  
gggtccggga gaagctcgat atcgactttg gtatatc 397

<210> 36253

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-C2

<400> 36253

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cggggtgggg gtgtcgttcc ggggcacgga gcccttcaac atgcgggact ggtccacgga 120  
cgtaaacctg tcgtggctgg gcatgggcca gctgggccac gtccacgtcg gcttcctcaa 180  
ggcgctgggc ctgcaggagg aggacggcaa ggacgccacg cgggcgttcc ccaaggccgt 240  
ccccaacgcc gtcccgggca agccgctggc ctactacgcg ctgcgagagg aggtccagaa 300  
gcagctgcag aagcaccgca acgccaacgt cgtggtcacc ggccacagcc tcggcgccgc 360

gctggcgacc atcttcccgg cgctgctggc gttccac

397

<210> 36254

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-C3

<400> 36254

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cgatccttca cccaacttgt atggctacct acgcctgctt actgcttaca cagggctagc 180  
gctcatgctg gagctcactg agaccagggc tggatgcttt ttcacaaatg gatgggctgc 240  
ggatgccttt cagttgtagc acaagtcttc cacctgaact gacgattttc tgacatgata 300  
cgcgtttgat ctcagctgct gttcatgctg agattactac tatttatgtg tatctc 356

<210> 36255

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-C6

<400> 36255

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cattcaaagg ttctgcacct ctgaatcttt cagatcgtct tcaccaggtg cttcgggtggg 180  
ctcttgggtc tattgagatc ttcttcagca atcattgccc tctttggtat ggggatggg 239

<210> 36256

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-C7

<400> 36256

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agcaagaacg cccagctccc cgacggccaa gttcccgtgc cggcgcagct cgtaccgtcg 120  
aatccggtgc tgaattccga ggtctcaccg gcgacagtga gccaaaggtcc tccagaccat 180  
cctcccggcg ctcgctccgtc gccgcacagc ggcgtggcca acggcaagca aacgccacgg 240  
aatcccgtcg ctacctcgcc gagccaggat gaccgggtccg gggcagggaa agagaaccag 300  
tcgtgcagca acacgccgag cagcagcagc cgccagtgcg cgtcgcagca gaagacgccc 360  
aagtccaggg cgacgccgcc gtctgacagg cgcagggtta ctctgctca gacaagccct 420  
gctattgcgc ctga 434

<210> 36257  
<211> 448  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-049-Q1-K1-C8  
<400> 36257

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catggacagc tctctcgcga gcgcggcggc gatagccgat cagcgcagca agatcgagca 180  
gtaccgccac atcctcgcct ccgtcctatc gtcttcccca ccggacatct ctcaggccaa 240  
gcgcttcttc gaccacatgg tttccgacga agttccgctc gtggagtcct gtcaattgct 300  
ccagacgttc gcgcaagacc tagggaagct ggagtcggac gcgcagaagg aggttgccca 360  
ctacgcgctc acgcagatcc agccgcgtgt ggtctccttc gaggagcagg tggtagtgat 420  
tagagagaag cttgcagaac tatatgag 448

<210> 36258  
<211> 398  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-049-Q1-K1-D1  
<400> 36258

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ccagtgcgcg aggacgttca gagctgcgac attgtgcgct tcaacaagat ctaaatttcc 120  
 ttgtgatggt ggcaatgggt gttggtgggc actgtaccag cctaatttat aattttccat 180  
 gagcatcttc aagagttttt ctaaattatc atttggagtc atttacataa aaagcacttt 240  
 ctatatcttt ttaatctcaa caacttttct atatcttggt ggcaccatct ttagctagcg 300  
 agaaacctgg atggctggaa tagaagataa ctatatcttag acaatacttt tagtaattct 360  
 tgtgtgatcg gatgcataat ggcttggtct ggctgggt 398

<210> 36259  
 <211> 404  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-049-Q1-K1-D10  
 <400> 36259

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 gaagagggtt ctttgccctt gatcattttg cacggtgagg ctgatatggt tactgacccg 120  
 gcggttagta aggctctgta tgagaaagcc aagagccaag acaagaagct gtgcctctac 180  
 aaaggtgctg atcacgctat cttggaaggt gaaccggacc agacaatatt ccaagttctc 240  
 gatgatatca tctctggct cgatcagcat tccacaaaag aaggtatata gttgtgaatc 300  
 aggcagcgct gttcgccagg attgggtgaa ttcctttggc aatgctgtat cgcttncggg 360  
 tggggatccc ggattcaacg gtggggattc catttttgat atga 404

<210> 36260  
 <211> 395  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-049-Q1-K1-D12  
 <400> 36260

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 gcgcggatcc ttgacatgta tgaggcgctt gctgaggtga tccctgaact aaaggagctg 120  
 ttctttggga gttatggngg tgatgtcatc catgatctgg aggggggttct tgaaaggctt 180

ggtgacgcgg tcaagggtag ccttcttgag tttgggaagg tcctacaaca ggagtcacgc 240  
 cggcgaccca tgatggctgg tgagatccac ccaatgacac gctatgtgat gaactatctc 300  
 agattgttgg tcgtttactg tgacacactt gacatacttt tggatgacag tgggtgctgga 360  
 gctgtagatc attaatatctt acataatggc accga 395

<210> 36261

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-D7

<400> 36261

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 gagctaggaa gaagagaact agtgccaag cctaacaaga aagcaagctc ttctgcaact 120  
 gttggcattc gccttaatct gtatccatcc caatggcagg cctatctctg gaacaccctt 180  
 gggcattcac tttcggcctc ctaggcaacg ttatctcctt catgaccttc ctggccccga 240  
 taccgacgtt ctaccgcac tacaagagca agtcgacgga gggcttcag tcggttccgt 300  
 acgtggtggc cctgttcagc gccatgctgt ggatcttcta cgcactgatc aagtccaacg 360  
 agacgttcct catcaccatc aacgcggccg gctgcgtgat cgagaccgtc tacgtggtca 420  
 tgtacttcgt ctacgcgacc aag 443

<210> 36262

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-D8

<400> 36262

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 ggcgaggcag atcttcgaca gccgcggcaa cccacacgtc gaggtggacg tgggccttag 180  
 cgacggcagc tacgcgaggg gggccgtacc cagcggcgca tccactggaa tatatgaggc 240  
 cttggagttg agggatggag gatctgatta tcttggcaag ggtgttctta aggctgtcag 300

caatgtaaat aacattattg gaccagcaat tgttggaag gacccactg agcaggttga 360  
gattgacaac ttcattgtcc aacagcttga tggaacctcc aatgagtggg gctgggtgcaa 420  
acagaagctt ggagcaaagt ccattccttg 450

<210> 36263

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-B8

<400> 36263

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tggtactcat tttagggact tcatttcttg cagctgcaa tccaattaca ggatgctatg 120  
acgctcttaa gtgatcatga acttatacat tgaaataatg gtgggcctcg agaggccaga 180  
aggtggagag gagttcaaca agtactacat cctgtctgct ctctatccg tggattgcag 240  
gtgagtgcaa acaacttctt gctaaaagtt agcaaggaat cggttgatac ttattgatgg 300  
tgcttgaaat atcctataga tgtctttagt agaggatcca aataatggtc tgcaagggtt 360  
attgaatcgg atcgacacaa actccatctg cttcagaatt gagctaagcg catcctaaca 420  
tcttgactcc tatatcgatc aattattt 448

<210> 36264

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-A10

<400> 36264

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gcgcgccttc aagcaggggc ttggcttctc ctctcatcc gccactgcct tcccttccaa 120  
gcccacgcgc tctctcttcc tatccggttt tgttcgcgcg ggcgcagccc ctggccccgc 180  
caaacagcgc ttaccgcatt ccaggacccc atccagtcgc caccatcgct caagttcacc 240  
gcctctttcg cg 252

<210> 36265



<211> 399  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-049-Q1-K1-A11  
  
 <400> 36265  
  
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 atttcagaaa tcaaaacgcc agcagttact ttcaagagaa gaaagcaatg cacaaggcaa 120  
 tagttacctt gacagccggg gggaaccctt catcagtgac agtaataatg gtgagcataa 180  
 tcatccagag gcaggtctgc aaactatcct ggagaattca gaagatttac cgtcaccatc 240  
 agggagaaca caacctgccg ttttcccacg tggccaaagc tttggacaaa gaattatggg 300  
 caatatgatg gataatattt ttntcagaag tcttacgtnc aaatcaaaaa gtcgaacaga 360  
 tgatattgct tcaaccttaa ctgtgaaagc ccctgatga 399

<210> 36266  
 <211> 301  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-049-Q1-K1-A12  
  
 <400> 36266  
  
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 cagtacattc ccggtgacgt ctgagccgtc taaagcatct gaagaagcag ctaaggttga 120  
 tggcgaagat gagaaagcta tttctaata acaagagact ggtgttcctg ataaagatga 180  
 gaaaactgtt gagataaaaa atcataaaaa tgtgactaat ataagaacaa gtgtcaccaa 240  
 agagaatgga agccataaac gtgaatccaa taagccaaga aagcatctca aggaaaatta 300  
 g 301

<210> 36267  
 <211> 447  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-049-Q1-K1-A2

<400> 36267

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cgggtgaacgg atttcctttt tccctgagcg aagctcggat tctgttgcaa ctaaccggat 120  
cactcgccta ccgtgctaata cgcttgccgg cgggctcccc tagacttaga acccagtagc 180  
cttataaaac cgagccatcc cttttcgcctt atgtcttgct cgccattatc gagagcagag 240  
gaatttgagc gatgcccgcca acattgattt cgggctgcgt tcgggttggg gccacggtgt 300  
actgccaggg cgcttcgcca gggcacaatg actgtggccg tggcacccgt actaggaaaa 360  
gagcatcaga agtcctatta tccctcattg gagttagagc tccgncgtgg acccaaatat 420  
cgccgtggctc tgggttctgt gctgcgt 447

<210> 36268

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-A3

<400> 36268

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cacgatgcgc ggccataacg gcgaggtgac ggcgatcgcg accccgatcg acaactcgcc 120  
tttcatcgtc tcttcctccc gggacaagtc cgtgctgggtg tgggacctga ccaaccgggt 180  
ccactccacc ccggaatccg gcgtcaccgc cgactacggc gtcccccttc gccgcctcac 240  
cggccactcc cacttcgtcc aggacgtcgt ccttagttcc gacggccagt tcgcactctc 300  
tggctcctgg gacggcgagc tccgcctttg ggacctctgc accggcctca ccaccgccc 360  
cttcgtcggc cagcagaagg acgtcatctc cgtcgccttc tccgtcgaca accgccagat 420  
cgtctccgcg tcccgcgaca agaccatcaa gctctggaac ac 462

<210> 36269

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-A4

<400> 36269

accacccgtc cgccaggcca tcgcgccgct ttcagaattc cctttaactt tttgacacga 60  
 tgcaaccca taagagctag gggactacta taacaagcta gggccataac tctactttca 120  
 ttctctactc atcactggac aactccgcgc aggaactaca cctcaccaac ccgatactct 180  
 ccacccagga ataacgataa caccgtacac tactatcttc ccctttcctc gcctcaccga 240  
 tcactcccac ttataccagt acgacatact tacatacaac taccaattaa cactctctag 300  
 ctctgtga 309

<210> 36270  
 <211> 450  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-049-Q1-K1-A5

<400> 36270  
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 gcgagggccg cggggccgctg ctccgggaccg acccgggccg cttcgctcctc tccaccgcca 120  
 acggcggatc cggcgccactc ggagaagacg agaggatcag cttcaacggg tgccggaact 180  
 tcttgctttg gcagaaggct gcggtctcagg gtgccgcccgc cagccacgcc ggggtccgatg 240  
 ctctgacggc aaccctgagc cccggcagga agggcagcgg tggattcaag gctactgatc 300  
 cgagccatgg caggaaaggc ggcgggcggt ggaatgctgg actgaacaag ttcctgctca 360  
 gcttcagcat caaggtgtga tccatgcgtg gacgagagaa ggggggcgtt tcttggtgtc 420  
 gaggcaccgt gcaacaataa aaatgcattg 450

<210> 36271  
 <211> 443  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-049-Q1-K1-A6

<400> 36271  
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 cgagtgcctg atctttgaac gcagatttgg tgcccgaat ctgccatgga tttgggttaa 120  
 gatttgggga gatcgggtcg gtccgcgctg caagattcgg tctctgtgcc tgttttattc 180

acgagatcgc aacaacgata ttgctaagca agataagatt tcaacttttt tcttgatcgc 240  
atctcagatt aggaggagca aataaagcaa gaatagaaag atttttgggg ggagaaggca 300  
tgatgctgga agggaagtc taccttgtgt cgcgctccgt gccgagctcc tgcgagcccg 360  
agacggagtg ggagtacctc gccacgcgg tcctcagcgg caagcgcccg gngccggaag 420  
atgacgtcga ggtcgaagac ccg 443

<210> 36272

<211> 254

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-A7

<400> 36272

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gagcaagcag acgcgatgcc actcggtcgg gtggcaacaa gtgaaggact gagaactcga 120  
tcggcaccag tagattaagt gggcatgacg tcaataacta aatgattacc tacctagccg 180  
cttgactag tcatgctcta ctttatatta ctttaaaaga tacatttcgt tgtgtaatca 240  
tcttatgggt catc 254

<210> 36273

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-A8

<400> 36273

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cgggacggaa ggaagaggag gagcaaggag cacgacgcga tggggcactc caacgtgtgg 120  
aactcgcacc ctaagaacta cgccctggc tcccgcgtct gccgggtctg cgcgaaccct 180  
cacggtctga tcaggaagta cgggctcatg tgctgcaggc agtgcttccg cagcaacgcc 240  
aaggacattg gtttcatcaa gtaccgttga agaggccact gtgctgctgt ggagaacttc 300  
ctacatcaaa gaaatgggtc cttcattaga aggcctaatt tatgcgcttt agctttttgt 360  
tcagaacttg agactcatgt gttaaactcg acttgtaaa gttttgatgg ctactttgtg 420

cttggttgac cagctataat cagaagatt

449

<210> 36274

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-B10

<400> 36274

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atctttctgg gaggtttttt tttttggaaa agggccaatg cttatggcaa aaaattttta 120

ctgcctaatt ttttcaccac gctttccgcg aaaccaccgg ctatttaaag gaaaaccccg 180

gtaaaaacca tttcaaaacg cgcacacttc actattgaaa aacctatcca ttagaaaaaa 240

aagggataaa gaaaaccccc taaaaaaacc gttccccaac c 281

<210> 36275

<211> 118

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-B11

<400> 36275

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gtcaggcttt attctaagtt aaatcctaag gaaaaaaaat ggtgcttctt ggtgctgc 118

<210> 36276

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-B12

<400> 36276

ggagaaactg tattttgaga cagagcgggt tgtccgagaa aagcaactta aggagcagga 60

ggaatcactg caggaatggg agaaaaagct gaaggaaagt cagaatagac ttaatgagtt 120

gcagagatct ataaatgagc gagaggagag agcaaataag aatgatcaac ttttcaagat 180

aaaacaggac gaactggagg aggcacgaag gacagtggag gccgctaaag ttactctgaa 240

agtcaaagag gatgatatta acaaaagact aaatgaattg catttacagg aaaaggatgc 300  
 tgactcaaag cgtattgcat tggaagagca cgggaaaaaa ttggatgaga gagaagc 357

<210> 36277  
 <211> 454  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-049-Q1-K1-B2  
 <400> 36277

aaagagaatc cgggccctg tccagaagac ttctcagtta cgcaaaatc cccaaatccg 60  
 cgggggagag gagagagccg gagagagggg cgcagccaga gagatcggag aaggggaaga 120  
 agatggtgcg ggtggcgacc tacttcgcga tgaccttcgg ggcgttcctc ttctggcagt 180  
 ccatggacag ggtccacgtc tggatcgccc ttcaccagga cgagaagaaa gaaaggatgg 240  
 aaaggagct ggagataaag agaatgcagg cagagttact ggcccaagct aaagagaatg 300  
 aatcatgatt gtcatttgtc caatggtttc aggcagttcc tttatcgat ttctctgct 360  
 gtattttcca tgcaatatct tgactgatgt atgctcatgc tcagcacctc caataaagcg 420  
 agacatgcta tagccattgt gaatgccagt gggt 454

<210> 36278  
 <211> 444  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-049-Q1-K1-B3  
 <400> 36278

cttcatggtt ttgctatttc tcggttataa ttattgcttc tcttcctcta aagaccaatg 60  
 agaagtcagt gtggttcgtg atgattggca tgatcatatg aaaagtttga agagatatc 120  
 ttttataatg acatgttccc tcacatgctt ggatgtttgg catttttcag tcatttagca 180  
 gaaccaaaga catgacatgg cgacctgac tatttagtga tagcatggcg gctagtggaa 240  
 tagaaactgg taaaaattg tacatttcaa acttggaacta tggggctctc aatgaggata 300  
 taaaggagct gttttcggaa gttggtcatt tgaaacgctt tgctgttcac tacgatggtt 360  
 atggcccgcc aaatggcact gcagaggtgg tgtttacacg gaggagcgat gcaattgctg 420

cactgaaacg ttataataat gttc

444

<210> 36279

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-B4

<400> 36279

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tttaaataat gttagtcctc tagaggactc aaagtcatga cgagttcaac atgtactaca 120  
tatctgatct cataactata cgtggattgt ataccagctc aaacaacttc attttaaaag 180  
ttaacaaaga atctctttga tacttattta aagagcctga aatatcacat agattatttt 240  
aataaactat ccaaataata ctatgaatat tta 273

<210> 36280

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-A1

<400> 36280

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gggatttagt accaactgga tcagaattcc accctgggcc tatccccatt ctcaataagc 120  
atggagatga tgtcgaagag gatcacgtgg atgggtgcatt ttcattgtca tctcgcaatt 180  
ttgatagctt ttcacaccaa tatectgttt tggttgtcaa cttctatgct ccctggtggt 240  
actggagcaa tcgactgaaa ccttcatggg agaagacagc tttaaataatg agggagagat 300  
atgaccctga aatggatggg agaatccttc taggcaaggt tgactgcact gatgaagttg 360  
aattgtgtag gagaaaccac atacaaggat acccatgcat tcgtgttttc ccgaaaaggt 420  
ctgatat 427

<210> 36281

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-B5

<400> 36281

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tccacatcgt ccggagcccc cttgtcctca catggctgcc accgatgtga gcttcgttta 120  
tttaccgtgc gtttagagca agcaatggag caggaacctc tgggcctggg taatcaagcc 180  
agagatccgt tgtgtcgcag cggcagcggc agcggcagaa caggttcact aaccaacgga 240  
aaaataactgt caaagctcca catgagaacc gcctttattc ttcaatgtat tcatgcttat 300  
tcc 303

<210> 36282

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-B7

<400> 36282

cccacgcgtc cgcgccaatg atatctgaag ttgcactcct tttctgaagc agaaatagag 60  
ggggcgtgca acatttcact tgtgctgctg catcattggg tcatgggttt tacaggtata 120  
gggtcaactag gctcaaagat acacaggtta tgcgagatca agatctactg taccatgaat 180  
taagatttaa gagagagacg ttgtgcccct cttgttacga cacttgatga acagcatagg 240  
gaatgatacc atcatagttt tagtagtc 268

<210> 36283

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-G11

<400> 36283

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ctcaacctct gctatgcgca atgcatacat ccagaccgaa tcacgccgct ccttgccaaa 180  
aatctcccaa tgtgatgacc acgatccgcg ttgcccacaa cgatttactt tcatattcca 240



caaaccaga catgacaaa actgctgcaa ctgccaatac acaggatcat ctttcaagca 300  
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 ctgtc 365

<210> 36284  
 <211> 317  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-048-Q1-K1-G12  
 <400> 36284

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 caaaagcggt taccaatggt gagcaggtgg atccaagac tgaaactagc acatccacca 120  
 gtaacgtgca caatgaatct caaggggctg atagcagttc tggatcaaat aactcaattg 180  
 gtaacggccc tgaacaaacc ggtaaaactg aaaggcagtg ataccactat ctagacacga 240  
 acattgtttt agtataaaag agttgattcc tggagattga agaggctagt actgaaccaa 300  
 gaaaaactgt tcacatt 317

<210> 36285  
 <211> 412  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-048-Q1-K1-G2  
 <400> 36285

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 gtgtgatgcc gcaaggcttc ggcgccacca tcagggccat caacggcgcc ctcgagtga 120  
 acgggaacaa ccccgcccag atgaacgcgc gcgtcggcta ctacaagcag tactgccagc 180  
 agtcccgct cgaccaggg cccaacctca cttgctaggc cagcagctcc tgctagctcg 240  
 tccacaataa atgctcggcg tcgcaccctc gcgaaaccaa gagtttactg actagtacga 300  
 gctaactagc atgcagtaat aataatcatc gtaataataa taataaaacg acggggctga 360  
 gccactttgt tcgacctgta tgaataatga aacaactgta tgttccctcg gt 412

<210> 36286  
 <211> 443  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-048-Q1-K1-G3  
  
 <400> 36286  
  
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 cacggattcc tttgagctcc ctccagcggga ctctcaaga gacgcagata ttgaaatggg 180  
 aatgcatcat gctgatgctt cagacaactt gaaagatttc ttgaagaagg tcgatgcaat 240  
 tgagagtata attgcaaagc tgacaaatct attgaataag ctccagactg caaatgacga 300  
 atccaaagca gttacaaaag caagttccat gaaagcaatt aagcagcgga tggagaaaga 360  
 tattgatgaa gtggggaaaa ttgctcgtca ggcaaagaca aaagttgatg aactggaaag 420  
 agataaccta tcgaataagc aaa 443

<210> 36287  
 <211> 105  
 <212> DNA  
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 <213> Zea mays  
  
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tcctcctcgc agctcttctc cagctctcgg aggcccgagg ttatcatcgac ccgcgctcct 180  
 tcatcctcga cacctcactc cggcggtctt tttccgcagt gctgcacatc gcgagccgcg 240  
 cggcacagcc gcacttggtg tccttcgtgc gtgggggtgcg gttcgacgcg ggcggcggga 300  
 tggcggcgag cgcgcgggac agcaccgatg cagcggagcg agttgtggat gaccacgacg 360  
 gctgggcgtc ggacgccgag atggacgtgg agatggatgt ggtggaaggc gatgccgacc 420  
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<210> 36289

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-G6

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 gagcggctaa aggagattgc acctcatgag agtagtatgt atgcactgat gggaaagatt 180  
 tacaagcaac tcaatattct tgacaaagct gttttctgct tcggcattgc cctggatttg 240  
 aaaccacctg ctgctgatct tgctataatt aagtccgcaa tggagaaagt acatcttcct 300  
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<210> 36290

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-G7

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 gtaactcagg ggttcaattt accgtggatt atgacttatg gtggctgcat ctccctgtgc 180  
 attggctgta gctccattgg catatgcaac tgcaatcagt tctcttgcta gtaagggaat 240  
 tttgttgaaa ggtggccatg tcttgatgct tctttcgtct tgtcagtcta ttgcttttga 300

taagacaggc acactaacia ctgggaagct tatgtgcaaa gcaattgagc ctatccatgg 360  
acatttgggt gtgaaaagtg gtcgtagtaa tccttcttgc tgcactccaa actgtgaaag 420  
tgaagcatt 429

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<212> DNA  
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<223> Clone ID: LIB3069-048-Q1-K1-G8  
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aataatggct atactcgagg gctttctggg tggagtctta tgggttcatt tcgattgagt 180  
atccagactg aagcaccaca tatgttacct tctatcttga aagaccgtgc aagccagaca 240  
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aggtcataac t 311

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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-048-Q1-K1-G9  
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cacgaccatc ttaaacttac ccgagcccta caaaaccagc ctaatccaac ttacttatgt 120  
actataccat ctttactact tatactacaa ccagctgtct taccaacac 169

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<211> 310  
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<213> Zea mays  
<223> Clone ID: LIB3069-048-Q1-K1-H1  
<400> 36293

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taccctcctc tttgtgtgct gccatccgtc cccgttagac gatcgaggag agaataacgc 180  
agagctctct gctcccggcc tgtcttctgc cgtcccggcc gtttaattta ctagtgtgtt 240  
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tattgggtgt 310

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<211> 312  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-048-Q1-K1-H10

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cgtgtagcca tcagccttct catcgccacc aatggccact gccgaggtcc agaccccgac 180  
cgtcgtggcg gccgaggaag cgcccggtgt ggagaccccg ccgtcggccg tcgtgcccga 240  
ggagtctgcc cccgccgagg ccgatgccga ggccgaagct gctgctcctg ctgatcccga 300  
ggagcttccc gc 312

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<211> 325  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-048-Q1-K1-H11

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atgcgtgca gatcctgggc ctattccaag tgctacacgc cctcggcgct ttcgacctcg 180  
actataccct gtggcccttc tactgcgagt gccgggtccaa gacggattcg ccgagccttt 240  
tcaggcacgc caggggcacg atgtacgcc tcaaggagaa cgggatcgac atggcgattg 300

cttctggatg cccacccccg gacat 325

<210> 36296

<211> 189

<212> DNA

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<223> Clone ID: LIB3069-048-Q1-K1-H12

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tctggccctt ctactgccag tgccggtcca agacggatac tccgagcctt ttcaggcaca 120

ccacgggcat catgtacgcc ctcaacgaga taccgatcga catcgcgatt gcttctcgct 180

tccccaccc 189

<210> 36297

<211> 308

<212> DNA

<213> Zea mays

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<400> 36297

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aagctgcgct gccgtacctg agccccgagc tccgagggga gaagctgctc gtcggcgcca 120

acttcgcgtc ggccggcgctc gggatcctca acgacacagg aatacaattt gtgaacatca 180

tcaggatcgg cgaccagctg cagtacttgc gggagtacca gcggaagctg cgagccctcg 240

tcggcgagcc gcatgcgacg cagctcgtga accaggccct cgtgctcatc acgctaggcg 300

gcaacgac 308

<210> 36298

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-H3

<400> 36298

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gatccttctt cactgctgca ggggaggagg gctctctcgt tacgcccgcac catgcacggg 120  
tggttggtact tgaatcaccg gaggcagcat cagaagaagc agaaactcga gaagtttgctc 180  
tttgatcaat tacgaacagg ctgcatctg ggcgtgggct ctatttgcag cgtgtgctac 240  
tacataatct actggtacat tcatatcata tgacatttac tattttttgc accttgagac 300  
attgcttagt acttctgtgt tgccttgatg aaagagagtg gtaaggcttg gatccgctga 360  
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<210> 36299

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-H4

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atcatcataa gaagcagaaa ctgataagt ttgtctatga tcaattacga actggcttgc 180  
atctgggctt gccctctttt tacagtgtga gctactacat aatctactgt tacattcata 240  
tcatatcaca ttctctattt ttggccactt gagacattgc ttaatacttt tgtgttgcct 300  
tgtgaaaaga gaatggtaag gttttgatct gctgatactc ttgttt 346

<210> 36300

<211> 274

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 36300

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tatganctct atgctctagc tagccgcgcc actccttcgt gtagccatca gccttctcat 120  
cgccaccaat ggccactgcc gaggtccaga ccccgaccgt cgtggcggcc gaggaagcgc 180  
ccgtggtgga gaccccgccg ccggccgtcg tgcccgaaga gtctgcccc gccgaggccg 240  
aggccgatgc cgaggctgct gctcctgctg atcc 274

<210> 36301  
<211> 239  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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ttctgccgtg tgtgtatgta tacagggtgc ggctgtatgg gtagatcagg ctatatatat 120  
aacagactgt gtgctggtct attattgcc tcatctcaaa tacttatttt ttccgccggt 180  
attaataata ttattacatg gagtatggca ttagtataaa aaaactatga taacaaaaa 239

<210> 36302  
<211> 155  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-H7

<400> 36302

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ttaagactt ctaaaatacc atgaacatat tatca 155

<210> 36303  
<211> 297  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-H9

<400> 36303

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cagcaagagc tataaactgt caataacagc tctacagttc aaaagctcta tcaactacct 180  
gatcgactac taattacat tgatacactt atattcaagt cactgaaga ccttttacia 240



ccctacatca ttactattat atgctattgc aatccatgaa actccacaca cttcaat 297

<210> 36304

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-E4

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atcaatgagc cgaagaggcc ttcagacaag cccctgcgtc tccccctaca ggatgtgtac 180

aagattggtg gtattggaac tgctcctggt gaacgtgttg agactggtat catcaagcct 240

ggtatggttg ttacctttgg tcctagtggc cttactactg aggtgaagtc tgttgaaatg 300

caccatgagg ctctccagga ggcccttcct ggtgacaatg ttggcttcaa tgtaagaat 360

gttgctgtga aagatctg 378

<210> 36305

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-E5

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caaggctaca tgcacagttt tcacaaatgc gtccctgttg aatggcgcc tcaatacgtc 120

ctcgcatgcc catgtttgca cctggtgtcc ctggagtctg tcagcatctg gtctatggtc 180

agccaccacc agccttcac aaccctcagg ctggatttgc ttttcagcaa cctctgatgc 240

ctggtatgaa gcctgggtgt ccaatgccga actttatgat gcctatggct cagcaacgac 300

agcaaccaca gcgtcctgct tgtaaactgt ctggtggaat gcagcaaccc atgccaatgg 360

gtggtcaaca acaagtggtc cct 383

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<212> DNA

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ctcgcgtggc cgcagcccca gggccccgcc ccagcaacgc cgtcgccgcc gcgccggccc 180

ggtcagccgt cggaggctat caggaagggt gtgttcgggg gtcagggtcac cgaggaggag 240

gccgacagcc tcaccaagag gaagccgtgc tccgcgcca agtggaagga gatgactggg 300

agcggcattt tcgctgccgg gagcaatgga aacgctgggg 340

<210> 36307

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-E9

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acacgaccac ataacaaagc acttgcgcaa tcaccatacc aaccgtccct gcaaactctt 120

ctccgtttca tcgcaatatc ccagaaccaa cttcagcttt attaccggcc tgtcacactt 180

tatggaattt cacaatccca taaatctgat cttgtttgcc gtaacgatcg ataactttct 240

ttgtcaaaa tgtaccgatt gcatcgaacg aatggccaat agcctcacct ggctactaat 300

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<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-F11

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gctgcgcgga ttcgggttca tgcaccgcat caaggcgctg ctcgagaagg agtgccccgg 180  
 cgtggtgtcc tgcgccgaca tcgtcgcgct cgccgccccg gactgcgtcg gcgtcatcgg 240  
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 ggcgctggac cagatccccg cgcccaccat gaacttcacc caactcctgc agtccttgca 360  
 gaacaagagc ctcaacctcg gcgacctcgt ctggctctcg agggctcaca cgatcgggat 420  
 cttcca 426

<210> 36309

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-F12

<400> 36309

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 gccattccct cgtgccctct ctccgtacct tcaaccttat ggctcctttc ttgcttgccct 180  
 caacaatcgc caaataacag gactagctgg agccgctgag gatctttacg agcgtaagct 240  
 atgacggccg gttccctgcg ggcaaaagaa cagaaaagga acctgtcttg atgtccacga 300  
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<210> 36310

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-F2

<400> 36310

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaggccg 180  
 cccattttta agaaccgaag cttactaacc caatcatgca accatataat tattctataa 240  
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 <211> 447  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-048-Q1-K1-F4

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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-048-Q1-K1-F5

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 caaagcaata ttcgctgact cgctcttag gaaggagtgc ctaagatgga tcgttaggac 300  
 tccagcttag aatacagaaa cagcatattt ctgtctgtgg gtcaatgatt ttttttttca 360  
 tattcttttg tccaccatac catatagtga agtattaatt ggtatgagct cagtttgcac 420  
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<210> 36314  
 <211> 348  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-048-Q1-K1-F6  
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 gcagcccggc gtgggacgca tacggcggcg gtaacgggac ggctaggagc gcgctcgctt 300  
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<210> 36315  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-048-Q1-K1-F7  
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tggaagcggg aaagaagata gccctctatg tgatgtgccc ggatttgaaa acactagaat 300  
 gaaactactg agacatgttt cttttgttga ttgcccgga cagcattc tcatggctac 360  
 aatgcttaat ggagctgcta tcatggatgg agctcttctt ttgatcgag catatgaaag 420  
 ttgtccacag cccc 434

<210> 36316  
 <211> 289  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-048-Q1-K1-F8  
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 gacaactact tctgcacgta cgcctacctt taccaccaga aggagatgct ctgcgaccgc 180  
 gtccgcatgg acgcgtacca ctccgccgtc ttccgcaacg cccccactt acagggcaaa 240  
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<210> 36317  
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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 actgaagatc gaccagggcg gctgggtgcc gctgggtgggt gcgacggcct tcttcgtcat 240  
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<210> 36318

<211> 217  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-048-Q1-K1-F9  
  
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 ttattttaaca gctgatacaa attgatgtag caacaaagtt tttcaaaact gctattcata 180  
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<210> 36319  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-048-Q1-K1-G1  
  
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 ccgtacattg cccccgtgga gtgcggcggc cgggcggacg tcatgtgggt ggcactccgc 180  
 gacgccggcg ggctcggcct gtacgcgtcg gctcacggcg gctccccgcc gatgcagatg 240  
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 aagggggacg acatcgaggt gcatcttgac cacaggcaca tggggctggg cggcgacgac 360  
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ccgatgatca tgtcttgcag cagcggcaag tgcgactgcg gctccagctg ctcttgccgc 120  
agctcatgca actgcatgtc ccctaacgtg gagaccgccg acgtcagcag catcaagacc 180  
atggtcctcg ctgcccgcac caccaaggcc agcgcggcg gcttcgaagc gggcaccgag 240  
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agctgcaact g 311

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<212> DNA  
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tctagcctcg ccggcgagct ctggaaacaa gaacaccggg aactggcgcg cg 172

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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-048-Q1-K1-C3

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ggagatgagg agcctcaagg aagaggagcg gaagaggggc ggggacagga atcccagagc 120  
cgcacaaaggc aaggcctaac ctctcactcg caacggcaca cagcgaggt ctggaagttg 180  
ccatgtcgaa cccttactaa tccccacagc ttacaatttt ctatggtgga tcactatgtg 240  
tgtatgactc ggtgccacca gaaaaggctc atgcaatcat gcttat 286

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<211> 320  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-048-Q1-K1-C4



<400> 36323

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cgacagcggc aggtctggaa tgttgccgat gtctaaccct tcagctaata ccacacagct 120

tacaattttc tatggtggat cactatgtgt gtatgactct gtgccaccag aaaagggtca 180

tgcaatcatg cttataactg cggctgcagc aactgctgca accaccaaaa gcagtgtctg 240

cactgctttt aatcctccaa tgagcacttc tgtagcatct tgacaagctc aagttgttgc 300

tgaccctatc tcaataaaca 320

<210> 36324

<211> 98

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-C5

<400> 36324

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<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-C6

<400> 36325

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tctggcgtca ctgcatattc tggtcctat ccaacacatt gacacacag atctaacttt 120

tcattccagt aagacgcaca tagatccatc atcatactat agatcagaca gctgacaaca 180

cgctcgatac tcttactgca tcaacgaact cccactatta tcttcatcc ata 233

<210> 36326

<211> 361

<212> DNA

<213> Zea mays

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<400> 36326

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gatgaggtct aagcctataa ggtgttcaag gaccctgagt ccctgacaat cgacaaattt 120

ccttgagtgc gtgcactgat gatagagata ttgtattgat gtggttgacg catgagatga 180

ctaagcaggt atatctaacg ttaactacat atcctaattg tagactaccc gtctagggct 240

tgggggtgttc ccctgtaat taccaactca ccctctgtat tgggcctggc ccatttacca 300

agtctattaa taccactcct agccctgatt aaggttatgg ttctcattcc aacatgggat 360

c 361

<210> 36327

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-C8

<400> 36327

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tggtcgcact cgcacacagt tgcgagcgca ttgcttgcac tgcgcagccg caggccgcag 120

cacgaagcta gccagtaagc ggtagatggc gagcagcgcg gggaaccgct tcctgaggca 180

gctgagcgcg agcaacggcg acgaagcggc ctgcagcggc ctgcagatgg accagcacga 240

gtacggcggc gccggcggtg agaggatggg atccccggcg tggtcgaaga agcgggccga 300

cgccgtcgac gccgctaggg gctacggcgc cggcaacggg aatggcgatga agcaaccggc 360

ctatgccgcg gggaagcggg tgatgggtgg agtggacgag agctctggag ccaaccacgc 420

catg 424

<210> 36328

<211> 373

<212> DNA

<213> Zea mays

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<400> 36328

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aaagaaacac acaatcacia catctttacc atttttctgg cttactgcaa gcaaatacta 180  
taccaggtta cttgatgtgc tcaaacttta cccctattca cgagttttac ttataccaga 240  
tccttcatac acattcatgc tacaaaatat aaccatctg ttgcaccta taatctgcca 300  
ccaatcttca tgcaggagac ttcataacat gtaagctatc ccaatactca tactacgcat 360  
catgttccca ata 373

<210> 36329  
<211> 401  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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gcgcccggcg tgcagcggcg atggcggaga tcccgggtgat cgacctgcgc ctccgccggt 120  
cgtcgcccga cgagtcggcg cggctgcgcg acgcgtgcga gcgcctgggc tgctttcggg 180  
tgaccggcca cggcgcgccc gcggggctcc tggccgacat gaaggccgct gtgcgcgcgc 240  
tcttcgacct tcccgacgac gccaaagcgc gcaacgcgca cgtcatcccc ggcagcggct 300  
acgtcgcgcc ctgccccgct aaccgctct acgaggcctt cgggctcttc gacgccgncg 360  
cgcccgccga cgtcgacgcc ttctgcgcgc gccttgacgc g 401

<210> 36330  
<211> 394  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-D11

<400> 36330  
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cgccacgctc gaggtccgag tcctgctttg atggcgaccg acgtgactga gactcccgcg 120  
ccgttggtgg atgcggcccc agaggcgccc gccgacgccc cggcgggcgc tgctgccgac 180  
gcgaagccgg ccaaggccaa gaaggccacc gcgccgaaga agcgcgccag cccgaccac 240

ccgccgtacg ccgagatggc ctcggaggcg atcacgtcgc tcaaggagag gacgggggtcc 300  
 agcagctacg cgattgccaa gttcgtggag gacaagcaca aggccaagct cccgcccac 360  
 ttccgcaagc ttctgaacgt tcagctcaag aagc 394

<210> 36331  
 <211> 350  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-048-Q1-K1-D5  
 <400> 36331

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 tcggtgtccc aagaagacat tgaggctctc accaagagga cacaagatgg tgggacagag 120  
 gttgttgaag caaaggctgg aaagggtctc gcaacattgt ccatggcata tgctgggtgct 180  
 gtttttgcag atgcatgctt gaagggtctg aatggaattc cggacattgt agagtgtctc 240  
 tttgtgcaat caactgtgac agagttgccg ttctttgcct ccaagggttcg gctcggcaag 300  
 aatggagtgg aagaagtgct tggctctgggt gagctcaacg acttcgagaa 350

<210> 36332  
 <211> 316  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-048-Q1-K1-D6  
 <400> 36332

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 ggtggaaacc agttcgagtt atggtcattt tgccaaagat gttctttgca ggtgtatcac 120  
 tatttgctgc ccttgggttt gttctgtatg gaggaagggtt atttctgatg ttgcagcgtt 180  
 ttctgtaga ttcgaaagga aggagaaaga aattgcagga ggttggctat gtgactacca 240  
 tctgtttttc ttgtttcttg atcagatgcg tcatgatgtg cctcaattca tttgataaag 300  
 aagcagatct tgatgt 316

<210> 36333  
 <211> 396

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-048-Q1-K1-D8  
  
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 aaggttgaga taccagtcaa aatcaagctg ataccagagc catggacccc cgagtcggga 120  
 ctcgctactg ctgccctcaa actcaagagg gaggtgatca ggaagacgta cgagaacgat 180  
 ctggctgagt tgtacgcatg atggttctac tctttttgat acgttttagtg tggaaaatgt 240  
 gtagagtgtc aatgtcacgc tgagatctat ggtaatttga taccgattat cgttctggga 300  
 ttattattat tattttgttc aggtagaaga gatataataa ccttgaaatt ttgagttata 360  
 tggcttctct tgatgccgaa aaactatatt gcgatg 396

<210> 36334  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-048-Q1-K1-D9  
  
 <400> 36334  
  
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 gcagccattc tgaccacact actgcgccg aatcctgaga ccacttgac catgcacaca 120  
 gcatatccca agaaactacc atcaccacta tcgagcagcc tatagctatt gatcaagttg 180  
 aacctgtcaa cctcaatgta catgaacttg tggtcgatga tcatcaacct ggctatgctc 240  
 caaggcgtga atctgctacg ctggataaac ctgcatgtac ttccaaaacg gatgattcaa 300  
 atgagattcg tgaagatagc atatcactgg aaaatcagtt agaaatttgc aatgcaacta 360  
 ctatgtctga tgagtgttcc tccacaaatg caaatg 396

<210> 36335  
 <211> 271  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-048-Q1-K1-E1  
  
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 ctagtgcagt tcaccacct tccaattcc ccatcttctc cacgatccaa cacaacccca 120  
 ccttcacatc aagcaatata ccgtcgtgta cccaatccag ccacacaagt ccacactcta 180  
 cacagtcctt cgatcccttc cccctcttcc ttctcccaat tctcctcgat ctatccttct 240  
 gctgtcctcg catctatagc ctttcaaaac c 271

<210> 36336  
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 <212> DNA  
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<223> unsure at all n locations  
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 ctgttgagg ccccaaagtc tcaaataatg aagcgttaca ttttggaagt tcattactta 180  
 aacattatga tgggcctgct aaaagattca agcaaaaata tcaggatatg tgccttcac 240  
 atttttaagg tatttgttgc caatccaaac aagcctcgtg agattattca ggttttggtt 300  
 gagaatcaca gagaagtgtt gaagctactt cacaatcttc ccacaagc 348

<210> 36337  
 <211> 334  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-E11

<400> 36337  
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 ctagtgatct ttaaataatt atatgacaca aaaaacaatc aaaaaaaaaa aaaggccgac 120  
 cttcctaaag aatccaaatt tacttacaca ttcatccaac tcaataacta ttttatatta 180  
 ccccaaata ttaattcact tgccaaattt ttaaaacatc aatatttgaa aaaccctgtt 240  
 ttaccccaat aaaatatcct ttgacaaaat ccccttttct ccagatatca tataagcaaa 300

aagccccaat cacatagacc tttcaaaaat tttc

334

<210> 36338

<211> 308

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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gcaggtggtg cacacaaact tttgccagaa ggcactagac tagctgtcac tcttcgtggt 120

gatgaatcat acgagcagct agatattctt aaggatgttg atgatataac aatgttggtta 180

cataatggtc catatgttga ggagaagaca ggcaggggtg atgctgctag gaggttattt 240

gagtacttac aggccaatgg cttgaacttc cctgtaattc atcacataaa tttccctgaa 300

accattga 308

<210> 36339

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-A2

<400> 36339

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ccgttcgtgc tccgggcgcg catcgcggtc agcctcaaag gcctcaccta cgcttactcc 120

gaggagaacc tcgacgacaa gagcgagctt ctctcagct ccaaccccggt gctcaagaag 180

gtgcccgtgc tcatccacca cggcaagccc gtctgcgagt cccagatcat cgtgcagtac 240

gtcgacgagg ctttccccgc cgccgcacct aatttccttc catccgacct ctacgaccgc 300

gccattgttc gcttctgggc ctctacgtc gacgacaagt tctacagcgc gtggataccc 360

gtgttcaagg gc 372

<210> 36340

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-048-Q1-K1-A3

<400> 36340

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aagaaggaag agcccaagga ggagtctgat gacgacatgg gcttcagcct gttcgactga 180  
gagtctgaga cctcgcctac ccagccatta gcaaattcgc ttatgctgtc caagacttat 240  
cttacgttat gtctgtaggc ttttgttatt acaagtactc aagttttgag tttttgagat 300  
gtggctatga caatgtgatg aagaatccta aaccatcgta ttagagtga aacttggttct 360  
atataaagtt ccaaggttct tgaacctcaa aaaaaaata naaaaatatt aaacttaaaa 420  
g 421

<210> 36341  
<211> 249  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-A4

<400> 36341

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ctaccgtgcg gggctacggt ccagacgacg ccgtcgcgct cggtccgtggg gctgtctcag 180  
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gtgcgcctg 249

<210> 36342  
<211> 301  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-A6

<400> 36342

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tcaggtagat gtgttctagt tgaagggggg gggggtgttc tggaacttgg gtaaattggg 120  
gaattctgaa tacagtgcaa atagaagtct gctccctttg gatattgac atgcatgaag 180  
caaaatgtta tatctgaaaa gcgcgtacct tgtaccatag tatctagtct taggtgctcc 240  
ttgcattaat atatagtacc tgaatatggc ccaaattatg tatctggata acacatgtag 300  
c 301

<210> 36343

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-A8

<400> 36343

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tcgggcaatg acaacgatga acatgtaaga accaaacaaa tcagagcacg accatcggtc 120  
tctaataaaa acgcgcagca cgcacgtagc agagcgcgca tggggcttct ggaccagctg 180  
tgggacgaca cgggtggccgg gccgtgtccg gactccggcc tcagcaagct ccgcaagcac 240  
gcgtacttct cccctcgtc ggcc 264

<210> 36344

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-A9

<400> 36344

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tacatgtgct cttgttacat tcagattgtt aaggagaacc aaatgcttca caaaggctct 180  
gttgagattg aagatgattt tgctactctt gctgataaga gtatttttcc tggggatttt 240  
ctctgggtca gagactctga aatatatgag aaccgtgaca ttgcagatga gatttcagaa 300  
caaaaggatg atatgctac 319

<210> 36345

<211> 285  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-048-Q1-K1-B1  
  
 <400> 36345  
  
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 tcagccttct catcgccacc aatggccact gccgaggtcc agaccccgac cgtcgtggcg 180  
 gccgaggaag cgcccgtggt ggagaccccg ccgtcagccg tcgtgcccga tgagtctgcc 240  
 cccgccgagg cccaggccga agcccaagct gctgctcctg ctgat 285

<210> 36346  
 <211> 261  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-048-Q1-K1-B10  
  
 <400> 36346  
  
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 caaaaccaa caaacaccaa acaacaaaca aaaattaact tcacaaccac acaactaaca 180  
 acctcttcac catccaaaac ctcaaaaacc tttaaaaaca caaaccccaa cccatcccaa 240  
 aacaccccc agtcaccaa a 261

<210> 36347  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-048-Q1-K1-B11  
  
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 gggatggtgt ccattcactc tgtgcagcta tatggtcaaa acataggaga tggttgatga 120  
 tgtcaatgat gtgtctcaat ccaatagctt gtctgtttat ggatttgcaa ttcctaatg 180

ggcaactaac atatgttgct ggtgagggga tatcagccag tggttttctt ccgttatttg 240  
gtgggttgct tcaagctcaa ggaaaatatc ctggagaaac aagagtgagc ttttcttgca 300  
agaataagcg tggcacaagg tttactccta tgtttcaatg gcctgacaag tctgtttcgg 360  
taggagttac tcaagccttg gcatggaaaa gatct 395

<210> 36348  
<211> 329  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-048-Q1-K1-B12  
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attggccgcg ttggggcgccg cggcgtcccg acgatcatgg gtacaggaga cggaagacgg 180  
gtcgacagca ccggcaagcc acgatcacga gcgcactttt gagacgagaa ctggcgatcg 240  
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ttctactact ggctatacac tagcaacca 329

<210> 36349  
<211> 406  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-048-Q1-K1-B3  
<400> 36349

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gaaccacag gtcgatgatt acagctggct agatagctat cagcaatcga ttgatcatgt 180  
tcacagctta agaactatth atcctgggtg cagtgatact agcactgcat ttgccactcc 240  
attctctttc cctgggagga tacacacaca agggaccaat gaaaagactt ggcaagattt 300  
ccaccttttt gagccttcaa aacagaacat gttccaaact taccaccaa gaaatcttca 360  
aagtggtaa aaggatgaac aagaaccagc aaattctatc tgggtct 406

<210> 36350  
 <211> 434  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-048-Q1-K1-B4  
  
 <400> 36350  
  
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 taaccacaaa gtcgatgatt acagctggct agatagctat caacaatcga ttgatcatgt 180  
 tcacagctta agaactatct atcctgggtg cagtgatact agcactgcat ttgccactcc 240  
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 ccaccttttt gagccttcaa aacagaacat gttccaaact taccacctaa gaaatctgca 360  
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 <213> Zea mays  
  
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 gtcagatgcg taatcatgta agtgctagtg atgcggcata cactcgtttt gtcacacaat 180  
 tgcagcaaga tggctctgct aaggggggatg atatctgtga acgcttcttc cggattctca 240  
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<210> 36352  
 <211> 58  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-B6

<400> 36352

cccacgcgtg cgaaaagata aaaaagtctt attcttcccc atcaaaccat gcataaac 58

<210> 36353

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-B7

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acagttgcca tggcgaccat agccacgatg gcgctgctga agcccgcctt caaggccgcg 180

gcgcggccag cgccgtccac cagcagcgga aacctctcgc tgcccgtccc ggagcatgcc 240

gccaaaaatg ctgctgtgtc cgctgcgcgc tcatccacac tggccggcgc cttcttcact 300

gcgctagcgt cgtcgaccga cactgcgctg gcggacgtcc ctgcagccga cgccttaggc 360

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aacatt 426

<210> 36354

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-B8

<400> 36354

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gacgcccgtc caggtgctgc agggctacgt gaaggacacg agcttcgtcg ccggctgcaa 180

ctcggccgcc tgcaacgtca cgacgatccc cgaggcggtc caggcggcga gctcggcgga 240

ctccgtcgtc ttgttcatgg ggctggacca ggaccaggac agggaggaag gtgaccggct 300

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aaaaccggtg atcctggtgc tgctctgcgg tgggcccggtg ga 402

<210> 36355  
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<213> Zea mays  
  
<223> Clone ID: LIB3069-048-Q1-K1-C1  
  
<400> 36355

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aaagcaagac tttggcgggc caaacccgtt ccaggaggag gcggaactacg tatcgcagcg 180  
gaggacgaag cagaaatcct accgaggcaa gtcttggaac aagcgggcct aacacggtag 240  
tagaggggga gttgagagaa tacgcgagag agaatccctg gacgcacatg ctgtttgttg 300  
ttacgtttta gcaccattg gtgaaggaga ttacgttta aaaaccatat ccgtcgtcgg 360  
tacggtagtc ccattagtt gtcgacgata tgacgttttg tgcagttttc gtaga 415

<210> 36356  
<211> 325  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
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<400> 36356

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tttggtgggt gacgggatcg agatggcggc gtcggatggt gagtaccgct gcttcgacgg 120  
cggcctcgcc tgtgccacgg acgaccactc cctgcacaac gccttcagca cctacggcga 180  
ggcctcagag tccaagatca tcctcgatcg ggagacgcag aggtcccgcg gcttcggcctt 240  
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gctggacggt cgcaacatca ccgtc 325

<210> 36357  
<211> 426  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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gaagaatgca gctgggctcc catctttgtg aggcagtcaa atttcaagtt acctgctgat 180  
ccgtccactc ctattatcat gattggctcct gggacagggc tggctccttt tagaggcttc 240  
ttgcaggaaa ggtagcatt gaaacaatct ggggcagaat tgggcacttc aatccttttc 300  
tttggatgca ggaaccgtaa tatggactac atatatgaag atgagttgca aactttcctt 360  
gaggaggggg cgctttctga gctaattgnt gcattctctc gggaagggcc aacgaaagaa 420  
tatgtg 426

<210> 36358  
<211> 396  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-G8

<400> 36358

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ggacgccacc aaggcgagga aggtgctcaa gtggaagccc aagggtgggt tccaggagct 180  
cgtggagatg atggtcgac acgacattga gctcgccaag aaggagaagg tcctggtgga 240  
tgctgggtac cgtgatccca agcaacagcc atagaaacat cacagttgct tcttgctctt 300  
gtggggctcg gattcaaatt gttcccctca tacatggtgg ttctcagggg tagaggttga 360  
ccgaagttac tatcgatatt tctcctggta agaaat 396

<210> 36359  
<211> 440  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-G9

<400> 36359

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tcgcccaccc tgatggtaca tgtaccgtgt acgtagtctg ccgtcgggcg ctgatcatgc 180

tcgacaagtc tagtgtctgc attatactcg tcatacccat caatacaaaa gttagtctaa 240

tggatgaacac aaagctggag agtaccatgg tgagcacaag ccaaaagcac aaagaggggt 300

tcctagacaa agtcaaggac aagaatcatg gtgagcgctg taccggatcc agccttacga 360

acaataacgg caacaagaat aatgagcatt ggcatgacca tagtcatgac aactggacca 420

gcatttacia cgattaaact 440

<210> 36360

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-H1

<400> 36360

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gtatataaac aactggacca aaccaagtc cagacccgca gcgcccgcg gaggcggagg 120

gaaccgagcc ggcgaccggc agaccgcaga gaagaggcct ggagccgacc gcagagaaga 180

ggccaggagc cgaccgcagg cagccgccac cgcaccagaa cccgaggtct cgaggcaatc 240

gagcgcacgc gggtcggggg ctgcggccat gtcggtgagt tgcgggctcg agtgggtggt 300

gtgccttggc tgcacgcggt gggcgtggaa gcggctcacc tacatcggcg cctacgacag 360

cgagacgtgg ccgccggcgt acgccgacga gttcgagccc gtgccgcgcc tctgacgcgc 420

cgtgctcgcg aactacgacg aggagc 446

<210> 36361

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-H10

<400> 36361



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 tgcccatggc tccttacctc ttccagtgtc ttgcacacaa gggagtatcc tctcttgacc 180  
 tggacatctc aattacgttg ctgtaccgaa tccatatcta ccatcttcag gtaacaagtg 240  
 atttgggtgc ccgtgtgggt aatccaaatg catgcattgc tctgagtatt gacaggttgg 300  
 ctagtgtaac gtgtaagtc aaaccatata gtatccaaac atgcgtattg taggtctttg 360  
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<210> 36362

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-H11

<400> 36362

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 acaccggcat cttatcacia tgcaagccca cgctcgctat cgactactgt atcatctctc 180  
 tatactgcga ccaatcatct gttcaattga ctgtcacttt caaccatact attggtgcaa 240  
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<210> 36363

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-H12

<400> 36363

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 gtcgacgtgc tcatgacgca cgacgtctgc gggcccggcg ccttcgacat cttcaagaag 180  
 gagttcgggg aggacgccag ggtctgggac cgcgagaagc tcgtcgtcat cccggaccac 240  
 tacatcttca ccagcgacga ccgcgccaac cgcaacgtcg acatcctcag ggacttctgt 300

gcggagcaga acatcaagta cttctatgac atcaaggacc tcaccgattt cagggctaata 360  
ccggactaca aaggcgtctg ccacatcgga cttgctcagg aaggccactg ccgaccaggc 420  
gaggttctct tgggcactga ttctcataca tg 452

<210> 36364  
<211> 132  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-H2

<400> 36364

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atgatgcatg gacttggata ctagggtcta actgacgact gagatcgta gcctcaaggg 120  
ggacgccagg ga 132

<210> 36365  
<211> 241  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-H3

<400> 36365

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aagtgattag gccctaccct attaaatata cgaccttacg tactcactga tttgaaagaa 180  
tcagatcttt tatatggta acgctatacc atcaactgta cgtagttgct caccatgcc 240  
t 241

<210> 36366  
<211> 463  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-H4

<400> 36366

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 tgtgccaaagt gatcctgctg ctggatctga tgtgactatg caggagcagc ctcttcgagc 180  
 tggaaatgga gcacaagata atgaggaaaa gtctgttttcg atggaaactg atgcaaaggt 240  
 tgagccgtca aaaaagaaaag ttaagaaaac tactgtttccg gtccatgagt tggctctatgg 300  
 ggcttggct gcagctgacc tgcagaaggc tgtagagaaa gagtatgaga tggctcttca 360  
 agacagagta atggaagaaa caaaggagaa gaagaatgct tgtgaagctt atgtgtatga 420  
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<210> 36367

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-H5

<400> 36367

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 ctctcaggta cgagttccca tctttcgagt actcgctgcc gccgctgttt tgcccttttc 180  
 cagccgctcg ctgctgcagc agaaaggatg caccgccaga aatggagtcc cccagaact 240  
 ggatgaccaa gctcttgatt ggccctcgcc ggaaatggag tccccccagg cgcaaccaac 300  
 cttatccctc tcaacgagat agttgtcgac atcaatggaa catttgtgcc ttactgagt 360  
 gctcccgcgc caaccaacac aggcttctcc ctcaccattg atgaggtaga caacacggtc 420  
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<210> 36368

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-H6

<400> 36368

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ctgacacaga tctgggctag cctgcatcgc tcgcaccgtc ttgtgtgcaa ttctgcttgt 180  
cattggaaac tatccccctgt ctcaccgggt caagggcacc ggcagataca ctactgatgt 240  
ggccatgcct gacacctata cgtccatggc tg 272

<210> 36369  
<211> 347  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-047-Q1-K1-H7  
  
<400> 36369

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gctatgagtg aaaaaatctt gcaggcaaaa cgtggaccaa cttaaatacag cagcagcgtc 120  
agggtggttag gcgctagcga attaaattaa ggccggccga acctcactgt cttgaaagat 180  
tcagatgttc taatgtgtaa tgctttacca ccagtgggta gtgggttgctg gttcatgctt 240  
cccacgttag agtcacgatt tttttttttt gaggctggag aaagatctga cgatacttca 300  
tgtgtgcttt ctttctgacg atggttccat acaagggtt accaaag 347

<210> 36370  
<211> 367  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-047-Q1-K1-H8  
  
<400> 36370

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gttttgcata tattggtata tatgggaagt cattgcagca agaagcttca tatatttgtc 180  
gactgatgac agctattgaa tcaagagtta cgcaaggaga gcaagatggg gctcatgacc 240  
catcaattca tccctgggtga ggccttctat ccacaaaaga tggcttcctt acacttcttg 300  
actgctttat aaaagcataa tcattatgtg tgcttcagaa tgtatgagac aatgcacggg 360  
caagaga 367

<210> 36371

<211> 324  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-047-Q1-K1-H9  
  
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<210> 36372  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-048-Q1-K1-A1  
  
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 cggcggcggg ccgaaaagga agccggtgtc gcggtcagtt aaggccgggc tccagttccc 240  
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<210> 36373  
 <211> 263  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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atcaacaaaa ccttacatct tctcctacta caatcacatc attaactaca cccacatcct 180  
taacaaatcc tccgataaca tcaaacaatga ctacgctact actaatcaca ccattattat 240  
tcctacacca tcttatataa ctc 263

<210> 36374

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-047-Q1-K1-G7

<400> 36374

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gaaccgagcc ggcgaccggc agaccgcaga gaagaggcct ggagccgacc gcagagaaga 180  
ggccaggagc cgaccgcagg cagccgccac cgcaccagaa cccgaggtct cgaggcaatc 240  
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<210> 36375

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-F3

<400> 36375

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cgagaggtca caactttggt tcacttggat cggccaatgt atttattagg atatcttgca 180  
 aaccaaagcc gtgtctatct tattgataag caatttaatg ttgtggggta tactttactc 240  
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 gttatatcat ctataccaaa ggaacaatat gacagtgtgg cgcgtttctt ggaatcacag 360  
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<210> 36376  
 <211> 457  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-047-Q1-K1-F4  
 <400> 36376

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 gtgaagaaca agaagtacct tgcagttgct gtgccagatg atgggtgccca gacccttctg 180  
 gttcacgcca ttgatgcttt tgggtggaag tgcaaccctg atgcgctgaa agaggttccc 240  
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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-047-Q1-K1-F5  
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aagacctgtc ctctgctgct cagggttttc acaagggttg ctggtcacca ccaaaatgaa 240  
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gcgaccctac gcgagctcac tgatcttgtg aaagaggttg ctcttcagc aagaaaaaag 360  
aatgcaaggc tntcttttgc atttgtatac ccagacaaga atggtcgatt tgggtgcaga 420  
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<210> 36378

<211> 385

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-047-Q1-K1-F6

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aaciaatgct accgttgtgg cgaaaggggc catatagaaa gaaattgccca gaacagtcca 180  
aggaacctca ggcgtgagag aagctattca cggctctccat cccacgccc aggacggggc 240  
cgcagccgga gctacagcag aagccggagc tatagccgat ccagatccac gactggatct 300  
actaggggtg gacgccgaga ccgtgatgag aggagatcaa tgagtcttag ctacagcagg 360  
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<210> 36379

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-F7

<400> 36379

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gattgtttta gcatattcta gtatctgttt tttcttatac ttaaagaatt gaattgtgtg 180  
atgatagata ttttcatctg gacacagagt aaagaattct cgactctctt gacttgacga 240



ggctatataa ctagagacca ttagaggaga actgaagact gagagcattc tctgcttata 300  
atctttattc ctctatatcc taaattgctt ttttcaatcc ccttgcacct ggattcaatt 360  
cgaatccac accatgtggt gttcttcctc tatcgaataa acgttggttc gcttgctctaa 420  
tcatcagttc gatagggcat tgaaag 446

<210> 36380  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-047-Q1-K1-F8  
<400> 36380

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cgacctattc aattttaatg agatgcctga tgaggctact tgc 103

<210> 36381  
<211> 421  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-047-Q1-K1-F9  
<400> 36381

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cgctgagtga gaggaagaga tggccggcaa gggcgatggc ccggctatcg gcatcgatct 120  
cggcacgacg tactcttgcg tcggcgctg gcagcacgac cgcgctcgaga tcattgccaa 180  
cgaccagggg aaccgcacca cgccctcgta cgtcgccttc accgactccg agcgctcat 240  
cggagatgcc gccagaacc aggtcgccat gaaccccatc aacaccgtct ttgatgccaa 300  
gcgtctcatc tgcaggaggt tcagagatgc gtatgtccag agtgatatca agctgtggcc 360  
cttcaaggac atctctgggc ctggtgagaa gccaatgatt gttgtccagc acaagggtga 420  
g 421

<210> 36382  
<211> 329  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-G1

<400> 36382

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agattgcttt agcatattct agtatctgtt ttttcttata cttaaagaat tgaattgtgt 180  
gatgattgat atcttcatct ggacacagac taaagaattc tcgactctgc tgacttgacc 240  
aggctatata actagagacc attagaggag aactgacgac tgagagcatt ctctgctcat 300  
aatctggatt cctatatatt ctaaattgc 329

<210> 36383

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-047-Q1-K1-G10

<400> 36383

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caggagagcc ttggtggcat ctctgtttca tggccgagat ctgctgtgag gcggcggcgg 180  
cggcgctcga ccagaagggg gagtgcgccg gcagccgcgc ggcgcggcgg cggaggatgg 240  
agattcggcg gctcacggtg gtggccgaag aggcgtccgc caagaggcgg atgctggagg 300  
cggatganga agacgcggtt ggggggagag cgccgaggta cggcgtgacg tcggtctgcg 360  
ggcggtgag agacatggag gacgcggtga ccgtccgttc ggagttcatc aacggccacc 420  
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<210> 36384

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-G11

<400> 36384

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tgggtgtcgca gggggtgcct ctggcgaatc tccacttacg atccacgaga cctggggtgg 120  
 atgagatccc gttaccactg cttgttaagt tctcgatgag ctgtaggata tttcgagaca 180  
 acgcgcttta ccagacagga ctgttccttt tccaattggc tcaaattgcg ttcaacaatc 240  
 gaaactcagt ctccaacggt gccagaatgg aacgtgctct caagttaatt tggagtacac 300  
 tcacttgatg tacttcatgc accaccgata attcccaagt cactcaacag agcctacatg 360  
 acctttctat gctttcgctc taatgaccac tcactttggg ttgttttgct gtgaaagaaa 420  
 ca 422

<210> 36385  
 <211> 96  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-047-Q1-K1-G12

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<210> 36386  
 <211> 458  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-047-Q1-K1-G2

<400> 36386  
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 caaagtcttc tgggttacct ctttgaagc ggtgagcccc ccaaaccagc agtggcacca 180  
 gctgtaagtg ctccacctgc tgctgcaggt gctccacctg ctgagaaacc acctgctgca 240  
 aagcctgatg gcaccagtca gattgctgct ggggttacca gccaaaccaa taactaccac 300  
 agggccgacg gtcagaacac cggaaacttc cttacggacc gtccttcgac caaggtccac 360  
 gctgctcctg gcggtggctc ttccctggga tacctgcttg gtggcaactg atgccgctca 420  
 ccaagctatc accccacact gtcgccgcat gctttttc 458

<210> 36387  
<211> 446  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-G3

<400> 36387

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tgatataaac aactggacca aaccaagtc cagacccgca gcgcccgcg gaggcggagg 120  
gaaccgagcc ggcgaccggc agaccgcaga gaagaggcct ggagccgacc gcagagaaga 180  
ggccaggagc cgaccgcagg cagccgtcac cgtaccagaa cccgaggtct cgaggcaatc 240  
gagcgcacgc gggtcggggg ctgcggccat gtcgggtgagt tgcgggctcg agtgggtgga 300  
gtgccttggc tgcacgcggt gggcgtggaa gcggctcacc tacatcggcg cctacgacag 360  
cgagacgtgg ccgtcggcgt gcgacgacta gttcgagccc gttccgtgcc tctgacgcgc 420  
cgtgctcgcg aactacgacg aggagc 446

<210> 36388  
<211> 424  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-G4

<400> 36388

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ccaattcgct ctctttactc ggccagcggg aggtgagagg agggcgagat gacggcggag 120  
aaggcggacg cggggctttc cgacttcgac gccacttgg atcgccctctt cgcttgcacg 180  
gacgccggct ccgacggcaa ggtgaagctg ctgctcttcc tggccgaccg caagcctggc 240  
tctccctct cctgggtgcc cgactgcaac gtggcagagc cggtgatcta cgagcggctg 300  
gaggcactgg agggcaagga cgcggtgctc ctgcgcgcct acgtcgggga caagcccact 360  
tggcgcgacc cggcgactc atggagggtg gaccacaggt tcgggctcaa aggcgtgcca 420  
acgc 424

<210> 36389  
 <211> 353  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-047-Q1-K1-G6  
  
 <400> 36389  
  
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 agtaaacctg gaaatacaaa ttatgctctg gaataacatc aggtttctcc aagacaacaa 180  
 ctggtcttac gacaatgtca aggtgtgaat acttaacctc ttgctgctgc tgcgttgcaa 240  
 agggagctga aacttcgata tcctttgacc cttcaggcag aacaaccttt acgataagct 300  
 tttcaatgag aatctcctcc aatggacaac caaatgtgat attgagaaat ctc 353

<210> 36390  
 <211> 362  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-047-Q1-K1-F2  
  
 <400> 36390  
  
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 ccatgtgaag agatcaaagt tgtgtgattg ctgagtcctc ctattgagca aatgctgcat 180  
 tgtatctatt caaatcatac ttctgaatat tgattgttct gcatgtattg ctatagcatg 240  
 acaggatatg ttagatagga ttgaacaaat tgcattggta ttaatatgt caccagaagc 300  
 gaattgagga ggctgtgtta tctgaactgt cacttgatga tacatcggtc atggacttca 360  
 aa 362

<210> 36391  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-047-Q1-K1-D7  
  
 <400> 36391

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 gcatcgctca agtcgtcatc tgcccttcctt ggccactcta gccgcctcgg tcgcaccgag 180  
 tcacccacga ggcgcaacct caaggcagag gcccaagggcg agtgggtccc cggccttccc 240  
 tgcccttcct acctcgacgg catcctggcg tgtgacaatg gcttggacct gttgctcctg 300  
 gcggaggacc catagaacct gctgcgtttc gtgcaggcgg agctggcgaa cggtcggagg 360  
 tccatgcttg gcgtgctcag tatgtcfaat ccggatgtgc tgaccaaagg cggactgatc 420  
 a 421

<210> 36392  
 <211> 307  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-047-Q1-K1-D8  
 <400> 36392

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 ctgtgcgata acatacatcg cattacgaat ctctgtgatc cctatgatgg acttgaacgg 180  
 tccggtaaag cacatttttg gactcatcta ccaggatacc cgcgtaatgc tcaacatctt 240  
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 caccgag 307

<210> 36393  
 <211> 447  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-047-Q1-K1-D9  
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 caccttgatc gtcttgctcg ccttgctttt catccatctg gaaagtacct tggtagagct 180

agctttgaca agacttggag attgtgggac atcaatactg tcaaggaact gctactccaa 240  
gaggggcaca gcacaagtgt atatggagtt agctttcacc ctgatgggtc ttgggcagca 300  
tcttgtggtc ttgatgcata tgctcgagta tgggatctga gatctggaag attgttcttt 360  
acactcaagg gccatgtgaa acctgtccta ggagtcagct tctctactaa tggttatctg 420  
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<210> 36394

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-E1

<400> 36394

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atggccttta cttatacagc aaagctgctg aagaaacaaa tgtagcatg cacaagcaca 180  
actaccagaa ttccagaaac caagctaatt cctatgtcaa actacctaatt tgggaaaacc 240  
tgtagctttt cggcacttaa gcaaccaacg tacctctacc caattgaact gtcagcatac 300  
cttaaat 307

<210> 36395

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-E10

<400> 36395

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caagattaaa ggcgataact ctggagatgg cattgagtcc cttataaaca aagtagaaaag 180  
catgattgtc aatggagact tgagtacagc ggccgatgcc ttggagcaag ggctacatgg 240  
aactgaagca gaggagatag ctaccgagtg ggtgaagcaa gccaggaaac gcgctcttgc 300  
agagcagaca cttgctctcc ttgcgcttg tgcttcttcg accacgttct cgtgattttg 360

acaaccattt acccttcctt ttcttcgacc gcatttgccg gtactccttg caaccgcata 420  
 ttttttcccc agaccatgct gcatatgtgt g 451

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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-E2

<400> 36396

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 aaaatgagcc ttcaaagatc aaaacgaaat ctcttgtaa cactctgctt agccttgaag 180  
 attgcacgat aagctgctta tggcacgctt gatgcctgct gttccactaa gcactatttt 240  
 actttgacat tcttaactca agcactatca acatgttgag aaggaggaac agtgtccata 300  
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<210> 36397  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-E3

<400> 36397

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 acgagtcggt gctgtggacg gagagcggcg acttgggcaa gggcttcgc tgcatccgca 180  
 tggatgaaca catccgcctc aacttcgacg ccttcacagg cgacaagggc cacggcggcg 240  
 tgcacgacgg caccaccgtg gtgctgtggg agtgggcaa gggcgacaac cagagctgga 300  
 agatcctgcc ctggggcgac caggcctacg ccgcgggagg cagcagcgcc gccaacgcgc 360  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-047-Q1-K1-E4  
  
 <400> 36398  
  
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 ggggtgcgct cgctcaacag ccgcgcgtcg tcggcgccgg accggcaggc cacctgcaac 360  
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<210> 36399  
 <211> 451  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 cttagatcaa ggaccggttg cctgtggggc ttgagatcgg tgtaccgctg aaacgaaggc 360  
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<210> 36400  
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 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-E6

<400> 36400

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cagccgcaga tggctcgcg gcgcggcgac ctggcagccg cgctgctgct gctggcgagg 180

gtggccgaga cggcgtcaga ggcgggtgagc tgcggcgagg tgacgtcgac agtggcgccg 240

tgctctgggt acgcgatggg cagcgcgcg tgcctctccg cggcgctgctg cagcgaggatg 300

cgctcgctca acagccgcgc gtcgtcgcg gcggacacgg atgccacctg caactgcctc 360

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<211> 99

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-E7

<400> 36401

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cacaagcaag cacacagtta caagcaagcc ttttttact 99

<210> 36402

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-E8

<400> 36402

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caaagtcttc tgggttacct ctttggaagc ggtgagccgc ccaaaccagc agtggcacca 180

gctgtaagtg ctccacctgc tgctgcaggt gctccacctg ctgagaaacc acctgctgca 240

aagcctgatg gcaccagtca gattgctgct ggggttacca ggcaaacc aa taactaccac 300

agggccgaca gttagaacac ctgaaacttg cttacggacc gtccttagac caaggtccac 360  
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<211> 455  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-047-Q1-K1-E9  
  
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ccatgtggag ccataggcgc ctaacagagg gagcaaaacc cttgagcatc catcacaagc 180  
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actccgctaa gaataccgcc aagaaatcta gggttaaggc cttcgtgaag ctcgtgaact 420  
accagcacct catgcccacg cgctacacgc tcgac 455

<210> 36404  
<211> 403  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-047-Q1-K1-F10  
  
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tggtgaaagt ggtaaatact aatccatttg tttcttagcc ataggtttat ggaaatttgc 180  
aagatgctgc agaaaacact catttctgct tccagtctag taggatgggt gccccaaaca 240  
agggtcaagg ggagtggttt tcagatatgt tgtacaatgc atgatgtata tattacgcaa 300  
tgtttagca caatggacat ttgccctcgt aattatagtc aaccttaaat gagatatgca 360  
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<210> 36405  
<211> 448  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-F11

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atgtgataca gcttgcaaga tatactctga aatgattggc aatgttatga ctgatgagag 180  
atccactgga aaatactacc actttgtgag gcttatgggt cgtgctgctt gtcacattac 240  
gctggaatgc gctttgcaaa cacaccccaa tgctgcactc attggggaag aggttgctgc 300  
atagaagcaa acccttaaga atgtcacaaa ctacattact gatatcatct gcaagcgtgc 360  
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<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-D6

<400> 36406

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ggagcatgga ggagtttatt tccagcgtca aagcaaccgt ggcgtcttga ttgcgtcgtg 180  
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aaacagtttt cacaacgcgc agttgctggg aggtcggttag catgtactat cacgtaccta 360  
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tataatcctc gctggtgctg agtatggaag cggcagttct cgtgattggg ctgctaaggg 180
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caacttggtg gggatgggaa tcattcctct gtgcttcaaa gctggtgagg atgctgattc 300
gcttggcctc actggacatg agcggtagag catcgatctc cctaccaacc tcagtgaagt 360
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<223> Clone ID: LIB3069-047-Q1-K1-B9

<400> 36408

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tcctggaaat cttgcagtag ccactgtaaa tgggaaggag tcctcaaata aggatgtgag 180
agggtttcct aacccccaaa gcttagaaat ctacctgctc catatgttcc atgaaattct 240
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taacaaagta catttgagac tggaa 385
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 <213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-C1

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caaaagcata ttgtgtaaaa catggatgga attatgtggt acggaaacgg catacacctt 180  
ttatgaagcc taatgcctac gctgagaact ctaagtggaa aggccctctg aaggcggatc 240  
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<210> 36410

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-C10

<400> 36410

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catgagacaa cccatgcata atatatgcc tctctgcaaa tacactctct ctatgggtccc 180  
cactctccat atgtgaaacg cacatactag actctctctg tgaacacaca ccatattttg 240  
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ctatatataa cacactccaa aacagttcac ccacaatctc acttatatgc cagacacctt 360  
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acattctaca aaacacatgt atat 444

<210> 36411

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-C11

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ctctctgcct ccttttcttt tcttttggtg tctcaggggg gtgggcaatg ttccttcctt 180  
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<210> 36412

<211> 433

<212> DNA

<213> Zea mays

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cgtggggtga acaccttctc tccggagggg cggctgttcc acgtcgagta cgccatcgag 180  
gccatcaagt tgggatccac tgcgatcggc ttgaatacaa aggatgggtg tgcctctgcc 240  
gttgagaaac gtgtgacctc accactgctg gaaccaaaca gaggggaaaa aataatggaa 300  
attgatgagc acatacgctg tgccatgagt ggacttatcg ctgatgctag aacactagtg 360  
gaacatgctc gtgctgaaac tcagaatcat aggttctcat acggagagcc aatgactgca 420  
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<210> 36413

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-C3

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ggtcagaatg gtgggtgatga ggaacctgaa gaaactgaag cagaagagga ggttattata 180  
ccacatgggtg aagctgttac tgtagagagc tttctggcgt ggagagaccg atttgaagct 240  
gagttggcct tacagcgtgc taagtaaaact tcctatcttg tttacatatt aagtttttct 300

cgatgatcac atgggaatct cttgtttact tgtgatatct tcaatctaata ggtgtttgct 360  
 tcccatatta tataagtacc caaatgtgtg tttagattat cttttgcatt ttgttgggca 420  
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<210> 36414

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-C7

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 gggtattata ccacatggcg aagctgctac tggagagagc tttctggcgt ggagagaccg 180  
 atttgaaact gagttggcct tacagcgtgc ttagtaaacat ttctatgttg ttacatat 240  
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<210> 36415

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-C8

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 gaaccaggta tgggtgctagc ttgcgtaagc aaatcaagaa gatggaggta tctcagcatt 180  
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 gggggtgcaa ggactgtggg aaggtgaagg ctgggtgggtgc ttacaccatg aacactgcta 300  
 gtgcggtcac cgtcaggagc acgatccgcc gcctgaggga gcagactgaa gcatgatata 360  
 gctctttata ttattggggg ttctgttagt tgctcttgct aagcatgttg tgggggcctt 420  
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 <211> 450  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-047-Q1-K1-D10  
  
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 tgcaattcgt acgaaatggg ggctttacta atgatcactg actatagtgc ccgactaccg 180  
 gtggttaaga gacgacttgg aggcttgctg acatagctca tgacatcggt ctgtttgaga 240  
 ccattgctca caagtgcgtt gaatctgcaa agggatacat ccatggtgaa caatatacat 300  
 catactgcaa aacagttgac caacaagctt acttttatgc caaaaactct aaaatcgatc 360  
 ctaaggacac atttgcgttc aatatatatg gtaccggacc ctctaattatt tcatactact 420  
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<210> 36417  
 <211> 442  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
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 cctccagctc ggctgcctc agccgcgccc gcgcgatgct agaggaggac gaggaccagc 180  
 cgccgcccga gcggccgtgc gcgtcgccgc ccgcggacca ggtgctcgac aacgtgctcg 240  
 agacggtgct ccagttcctg gacgccccgc gggaccggag cgccgtctcg ctggtctgcc 300  
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 ccgcctcggc caccgcgcc gcgcgccgt tccccaacgc gcggagcctn ctactcaagg 420  
 gcccgccgcg cttcgncgac tt 442

<210> 36418

<211> 445  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-047-Q1-K1-D12  
  
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 tgttattcct ggagggttat atagggatgg accacagctt tacatgatag agccctcagg 300  
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 gatagaaaag ttgaaacttt cggagcttac ctgccgagaa ggcattgttg aagttgcaaa 420  
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 <211> 390  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-047-Q1-K1-D2  
  
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 aattttctga gtatgatgag aaggagaaat gccccttga gctaggcaag ctgcgggtcca 120  
 cattcagagt caagcatgag aggggtggga agactagatt tgtctagatc gaggacttg 180  
 gaatctgaca gatattggag taggccttgt attaattgga gatatgggct taaggccatg 240  
 cttgaaccga tctcctgtct gtactatctg cagatgctgt ggatgccacg aacctgcca 300  
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<223> unsure at all n locations  
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tgctgcgcga caacatccag ggcatcacga agccggcgat ccgtaggctg gccaggaggg 180  
gcggcgctcaa gcgcatttct gggctcatct actaagagac ccgcggagtg ctcaagatct 240  
tcctcgagaa cgtcatccgc gacgccgtca cctacaccga gcacgcccg cgaagaccg 300  
tcaccgccat ggatgtcgta tacgcgtca agcgccaggg ccgcacgctc tacggcttcg 360  
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tagttggccg gtctactgta 440

<210> 36421  
<211> 206  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-D5

<400> 36421

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aggacaaaaa gtgatgagat cttgggtggc acaatgaaca ttgggttctcg ggaagagaga 180  
gagagagaga gatagacaga gagaaa 206

<210> 36422  
<211> 286  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-B7

<400> 36422

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atctgctgaa aaacatggat tggatactga cgtacagaaa cagtatacac ctgttatgaa 180

acctaaagcc tactctcaca acttcaagtg taaaggcccc atgtacgcgg tatatgcatg 240  
agctcaagga cactaccagc atgtgaccct gacaccggaa tgaagc 286

<210> 36423  
<211> 439  
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<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-A3

<400> 36423

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caagggctcc acgctcgtaa ccaatggcgt gataacgggc gggctctgacg agtggggcat 180  
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cgacagggcc cgtgggaaca ctgatgagct caacatggat gtcttctgtc ggccgtttgg 300  
ctcacagtca cagctgcaag ataagatgca agtgcaaggg catgggcagg gctctagcgt 360  
caccaagatt ggactatggg gtggaccggg agggtcggca caggacatca cggcagagcg 420  
gtcaccgtag catgttcac 439

<210> 36424  
<211> 252  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-A4

<400> 36424

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ccaaactgtt ggcataatcat tgaatttgct tataaacgtg gggaaacata acttgccctg 180  
gaagtggctg ctgtcagcct gcgatcgtga actgtaactt atcgaaaatg caacggagtt 240  
tgggactcta ct 252

<210> 36425  
<211> 254

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-A6

<400> 36425

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 gttgctaatt accctgcatt gctaccggtt tattgagaat aattattgct tgttacgttg 180  
 ttgcttcaaa actgcgatcg tgaactgtaa cttatcgaaa atgccgcgca gtttagaaga 240  
 ttcacgctta cgta 254

<210> 36426  
 <211> 451  
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 <213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-A7

<400> 36426

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 ggaggtgcct atagtagccg tgggtggtcat ggtgggtcgac gtgcacgtgg tcatcatcca 180  
 gcccccttc aacaatgcca tatcgtgcac ctgcgacaat tggagatcgt ggtgctgctg 240  
 tctagtctgt ggacgacgac actgaggggtg atgaattcaa tgaccaagat gctttggggc 300  
 atgctgaatg gaggaagtta aaatatggac caccagaaaa ccttgataag cttgagataa 360  
 tgtttgagca tatagctatg aatggatcaa cttcctgcac accaggacaa aatattgata 420  
 tagaaggacc tgatgttgaa ggagtagaag c 451

<210> 36427  
 <211> 447  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-A8

<400> 36427

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 tacctgtctca ccaactggtgc cagggagagt gctttccgga acatcaaaac cattgccgag 240  
 tgccttgacg atgagctgat caacgctgcc aagggtcat ccaacagtta cgccatcaag 300  
 aagaaggacg agattgagcg tgttgccaag gccaacggtt gaactgagct tgtatcctgg 360  
 tgcactctgc gctggaaact tttatgtcgc tggcagtcgt atcggttctt ggtttaccaa 420  
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<210> 36428

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-A9

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 caaaggctga tatcaaaagt gattttgttt tctttcagtt tgctgtccat tattccaata 180  
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 ctgcatactt ggcaagtgtg caggaggatg ttgcggcagt tatcattggt aaaagaactg 300  
 tattgcgtgc caggactgcc tctgatgcta ttgatatgag gctctcaatt gatgaaagag 360  
 taaaggacat agctctcaaa tttggtagtc aggctcccaa atcaaagctt taccgcttcc 420  
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<210> 36429

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-B1

<400> 36429

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tttgaataag ctgattcaca gaattccatg ctgacactat ttaagtcaag cgtatcggca 180  
aacctacagc gcagaatcac accgcgtaga atggaatgac gacgaatagg gactaacgaa 240  
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ttgattgat 309

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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-B10

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aagctggtgg catgcccacg aagcttgatc caaccattgg tatatctgat gatcacgcgc 360  
gtaagaacaa atcccttgag ggactgcatg ccaatgtgca gaggcttaag acatacaatg 420  
ccaagctggt tatctttcca aagcgtgcgc gc 452

<210> 36431  
<211> 346  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-B11

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tgccgctgtg ccccaacgtg gtgcgcgtgg ccaccgtgct caacgagaag ggctctgact 180  
tcgagatcgt ccccgttgac ctcaccaccg gcgcccacaa gcagtccgac ttgctgacct 240  
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gtgcgatcaa ccggtacatc tccagcaagc acgcgtctga gggcac

346

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<212> DNA

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<400> 36432

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ttcgggcttg gttgttgctg gtttggcagc agatggcaga caaattgttt caagggccaa 180

atcagaagct gccagttatg aaaaggctta tggagaacct attcctgtga aggatttggc 240

agatcgcgta gcaagttatg ttcattcttg cacgctgtac tggcggctta caccttttgg 300

ttgctgcggt attcctggag gttatgatat ggatggacca cagctttaca tgatagagtc 360

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<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-B2

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gtacggcgca gaatcgact gcggacaatg gaatgacgac gaataggac taacgaatgg 240

aatggtctaa gcacgtgtgc tgaaaaggat actgctggac ggatctgtaa gcatcgattg 300

attgatgata tgcataactt gaaatggatg accaaggcat aggcgaacta agtttgtggc 360

aaagcacatg ctgctgcatg aatctacagt aaccgaagca gacgaatc 408

<210> 36434

<211> 377



<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-B3

<400> 36434

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 tcttccttgc cattgatttt tcgctgatag agagtgcga agatgttctc tgggtaccag 180  
 atgtcagaga aacctttgag tcactcgcag aaaggggtat gaagttcatt gactggctat 240  
 ggacaagaga agagagagag atagccatcg tcacccatag cggtttatta agccatacct 300  
 tgcgcatgta cagcaaaaag tgccatccaa caagtacaca agaagtgagc aagtactttg 360  
 caaactgcga gctccgg 377

<210> 36435  
 <211> 435  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-B4

<400> 36435

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 aaggctaagc cggcaaaggc cgtcgtgcc aagaccaccg tcccaagcc ggccaaggcc 120  
 gtcgtcgtca agtcaaagaa tgcagcggct gccaagccaa agaaggccgc tgctgctggg 180  
 accaagcgca aagtgccga gaagaaggc gtggcgaagc cgaagaagtc ccccgccgtc 240  
 aaggccaagg ccaagccgaa gaccgtgaag tcccctgcct ccaagaaggc acggaaagcc 300  
 tccgcatgag atgggttgct ctaggtctaa gctctgattg tggttggtgt cagctaggta 360  
 ctgtacaaac taagtgtgtg cccaaagtgt ctcatgcagc gtgttatgtg cttagcaagt 420  
 tctatctatc agagt 435

<210> 36436  
 <211> 394  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-B5

<400> 36436

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ctttttcctt gccagtcaat ataattgtga atttgaggct ctgagcatgt gctagaatgg 120  
gcatccataa tagtaaatat aagaaacagt ttttagtact aatttattca gtattatcca 180  
aagaagaatt tagtggaact gttttgagtg tgttgtatag ttatgctaatt tctctcatct 240  
atttgcggct cactacaacg atgtttacag tacttcattt ctgaacttgg ttttcaatgg 300  
aattgcctag catctgcatt gtaatttttc atgctccggc catctcagat tgtgaatact 360  
tatgttttct gtaataatca tgggtcattt tgac 394

<210> 36437

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-A2

<400> 36437

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gagcgcaaga tgttcgtgtg tgggcaccac ggacaccacg gccagaacct gacggcgcac 120  
gggggcgtgc accaaaccac cttgaagatc ttctgcaagg ccgacaagggt gtactgcctc 180  
acaggacgct actgcaacgt ggtgctggcc cccgccaaacc cgcgcgacga gcaccagcac 240  
tggtacaagg acatgcgctt cagcaccat gtcaaggacg aggagggcaa ccctgcgttc 300  
gacctggtca acaaggccac tgggctcgtc atcaagcact ccctcgggtca gtccacctc 360  
gtgaagctgg tgccgttc 378

<210> 36438

<211> 178

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-F12

<400> 36438

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aaattttaat tggggaagct aatacaata accaatacaa caacaaatac tataatcaac 120

tcattgtgaca tctaaaatac tatcttcttc ccataatctt tttttatcaa actttata 178

<210> 36439

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-F3

<400> 36439

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tcgttccgaa accccgcacc ttccccattt catttcccc gcagagtagt agttttttac 120

tgggaatttgt accggaacca gggcttaatg gatgctgttt gcttgtagt tcagcttcac 180

caattttctca acagtgtgtt tgttcttctc caggacagta gaaaggaaag gagaaaagct 240

tgttggtgtc gtgtgtgagc tgcagacccc gagaggatgg atcagtatga ggtgctggag 300

cagattggga aaggagcatt tggttctgca ctcttggtga ggcacaaggc cgagaagaag 360

aagtatgtgc tcaagaagat a 381

<210> 36440

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-F4

<400> 36440

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gcacttttagc ttcataccag cacctgtggt agctgctoca gctgcagtct ctgccaaaga 180

ggacttcttt cctgttttgg aagcccccca gaccagcaag cgcaccaagt caaaagcatc 240

tgatatctgt gccagaccg agaacaactc tgttatagta 280

<210> 36441

<211> 321

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-046-Q1-K1-F5

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ccgccgctcc accgctgccc acggcgcggc ccgccggggc ctccccgctc cctcctgccg 120  
cccgcgcggc gtttcaagcc cctagacatg aagaagggac atagtaggaa ctcaccgaag 180  
accttcagct catctggaca ctcggggggtt aaactaaaca acgaaggtct cgtcaacgac 240  
aggctcctaa taaattgtgg agaggatcaa gattgtgtgc tcggtggcat agttgccttg 300  
ggaaagtttg atgctctcca c 321

<210> 36442

<211> 375

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-046-Q1-K1-F6

<400> 36442

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cgcggtggcc ttctcggaag agctccgccg ccacttcgag cgcttgccgc tgagctacgc 120  
cgtcgatgtg aacgtcgaca aggcggagga cgtgctgctg caccggagga ttctcaacga 180  
gtgcgctcac cctgaaaatc gccccatctt ccatgtgggc tttctgaact gcattccgcc 240  
ctcggtggat ccacagtata aactcaatt catctctacg agcgaaaaca gtaattgtgg 300  
gggttctcag gattccactt tgagaaaatt tgagccatgc gaagggatcg aggacctcag 360  
tttaactgga caaaa 375

<210> 36443

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-G1

<400> 36443

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tgactgtgtc atgctcagcg gagagagtgc cgctggagcc taccgccagg tggctgtgaa 120

gatcatggct cgtatttgca tcgaggcaga atcttccctg gaccacgagg cagttttcaa 180  
ggccatgata aggtccgcgc ctcttccaat gagccctctg gagtcccttg catcatctgc 240  
tgtgaggact ggcaacaagg ccaaggctgc actgattgtc gtcttgactc gcggtggcac 300  
cacggccaaa ctggtcgcca agtaccgccc cagggtcccc atcctctccg ttgtcgtacc 360  
cgtgctta 368

<210> 36444

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-G10

<400> 36444

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ccggagactg tggaggtgac gctgcgcgcc gtcggcccggt cccgtccaac caccctccgc 120  
ctccctccgc ttctctcggt cgccgagctg cgcggctgca tcgcgcgcga acgccgtcta 180  
gcaggcacgg aagaagttcg actccgcttg atcctgcggg ggaagacgct cccgcaccaa 240  
gacgacagcc atgtcactct ccgcgatggg gatactctta tagtcgccgt ggcacctaag 300  
cctcctgtta atcatcttct tgatgatgac gttgaggacg aagaagagga tgaact 356

<210> 36445

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-G11

<400> 36445

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ggacaggagc tcttccgcaa gggcctgtta agtgaacctg ttcttgcttt agaggctgaa 120  
gttttgaaaga atcctgataa tgcttaaggt tggagggtgt taggcataac acatgcagaa 180  
aatgatgatg accaacaggc cattgcatca atgatgcttg cgttggaagc taatccgaca 240  
aaccttgaag atcttcttgc tcttggtgtt agtcacacaa atgaattgta gcacggagaa 300  
gcattaaggt atctttatag gttgcttcag aatcatccaa aatatg 346

<210> 36446  
<211> 379  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-046-Q1-K1-G12

<400> 36446

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gaactcgaca aaaagattca gggaggctct tgctacatgg ccattgcggc gcggctgctg 120  
cgagcaaccg aggtgagata tcgattacta tctgcttccc atggtttcgg ccagcgagct 180  
gcatacacag atggtgggat agtcgatgtt ggccaaccaa caccacagtc tcatccagag 240  
ttattagctg atggagagat cacaccaggc atcaciaaacg aggaatacat ctctagaaga 300  
aaaaaacttt tagaggtgct accagagaag agcttggcca ttattgcttc tgctgatcag 360  
canatgatga ctgatgtag 379

<210> 36447  
<211> 294  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-G5

<400> 36447

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cgccggcgag cctgtggcga ggaccaacag cgatggcggc ggcggcgga gcaaggactc 120  
gggcagcttc gaggcaaca tctgcctgga cctggcgag gaccccgtag tcaccctatg 180  
cggccacctc ttctgctggc cctgcctcta cgagtggctc cacgttcacg cgactctca 240  
ggagtgtccc gtctgcaaag ccgtcgtcga ggaggggaaa ctcgcccccc tcta 294

<210> 36448  
<211> 372  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-G7

<400> 36448

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agaccattgg ctagctcttt tgttgaggac tcgctttctc caciaagctt ctgcgagctc 120

aggagttagc gcttcccagg cttccagctc ctaaaatgta cttattcacg taccaaggga 180

tttgatctgc cgtaagtatt atgcgagatt tgttccacca tttacgatca actgtatagt 240

tctaaagatc cctcaacca acatgctgcg gatttgaagg gcaatcatca ggaacatgtc 300

cgcatgaaac gtatgcaaga gtgagatgcc aaatcagatg atgacgtttc aaaagggtgaa 360

agacattttt gt 372

<210> 36449

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-G8

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gacaataagt gatggtgata atcttgagc ttataagctc ccaaagttgg aaaagagggt 120

gaattacatt cagtttgtgc atcgatcatga agatctggac catggaaaca ataacagctt 180

gacatcttgg aaaccgtacc gtgttcctct tcttgacaaa atttcttgca atgaaattgt 240

cacgggtttt gatatccatg agttggtcca taaaatgctt gtgcccgtgc taaagaattc 300

ggactctctg catttggtg gtcaaagttc tgttttcaca ag 342

<210> 36450

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-H1

<400> 36450

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agattcgtga ggggtctgcac tacaatccct acttccctgg tgggtgccata gccatgccga 120

agatgcttaa tgatggagct gttgagtatg aagatgggtac acctgcaact gaagcccaga 180

tgggtaagga tgtcgtatca ttcctttcgt gggcagctga gcctgagatg gaagagagaa 240  
agctgatggg agtgaaatgg atctttctac tatcactagc gcttctccaa gctgcctact 300  
accgccgcat gaggtgggtca gtcttgaagt cccgaaagct ggtcctggat gtcgtcaact 360  
aaggactatc attacccttt tttta 385

<210> 36451  
<211> 379  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-H12

<400> 36451

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ggcctcacgc cgcgcgcgcc gcgctgccag gtccgtgctg ccgccttccg tccccgccga 120  
gctggtgaag ttttcgggtca atggcggtgct tgtcctgacg ttcttatgga tctgaaggg 180  
tcttctcgag gtggtctgca catttggaag catggtgttt gcaagcatcc ttcttggtcg 240  
tggtatatgg tctgggggtga catacatcag agaaaaccgt tacagctata ttcaccggat 300  
cgacaacgat gagaaccgat ggagcagagt ccagactggc tgttaatat ttgctttcct 360  
tatctatgaa cagacacac 379

<210> 36452  
<211> 191  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-H6

<400> 36452

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ctgtgtcggc atgagtagga gacaagtgcc tcgatagtat tttggctaata tgttccagta 120  
ctgtattcat gatgtgcaca ctgctctgta ctactggtgt gcatgtgatt gttgtacatt 180  
atttgctctt c 191

<210> 36453  
<211> 72  
<212> DNA



<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-046-Q1-K1-H9

<400> 36453

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taaaaaataa aa 72

<210> 36454

<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-A10

<400> 36454

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ttagacacaa aggctgatat ctacagtcgt ttgaattgat ttcattttgc ttgagcctca 180

ttttaatata tttgaaatgg cgatgctcta ggatgaactc ta 222

<210> 36455

<211> 372

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-046-Q1-K1-F11

<400> 36455

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aaacatcaaa cgagagaacg aaaggaaaca gagcaagagc atcgctctcg aagcaaaacg 120

cgcaccacgc cgtcgccggc cggccacttc gcacgtacgt aagacgcgca cgcaccgggtg 180

catatatggg gtcctgaac cagctgtggg acgacacggg ggccgggccc gccccggact 240

ccggcctcgg caagctccgc aagtacgcct ccttctcccc ctcgtcgtcg tcntccgcgg 300

cgggtggcggc tgcngctgct gctggctccg cgccgcctcc gggcgccgtg acgcggagct 360

tgaccatgct gc 372

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 <211> 337  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-047-Q1-K1-A11  
  
 <400> 36456  
  
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 agatacatgg gatacctcaa ggctgtctgg cacgtcagca ctctctattg cgcagttaca 180  
 aagatgcagg ttccaaactc agatggcgct atcacttgcc gaccagctgc aaggctgcta 240  
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 catctacata gcactagcca gaaagcctta ttgattc 337

<210> 36457  
 <211> 448  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-047-Q1-K1-A12  
  
 <400> 36457  
  
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 gggcgggcgac ttcacccgcg gcaacggcac cgggcgcgag tccatctacg gcgagaagtt 180  
 ccccgacgag aagtctgtgc gcaagcacac cgcccccggt gtgctctcca tggccaacgc 240  
 cgggccaac accaacggct ccagttctt catctgcacc gtcgcgacct cttggctcga 300  
 cggcaagcac gtcgtcttcg gccaggctgt cgagggcatg gacgtcgtca aggccatcga 360  
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 gctctcctag atctctctga tctgggtct 448

<210> 36458  
 <211> 395  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-D10

<400> 36458

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caccgatcga ctttcacgcc agtctccgtc tcttccgaaa gcgtcgcgcg cggttggttg 120  
agaggagagg aggaagatga gggagtgcac ctccgtccac atcgggcagg ccggcatcca 180  
agtcggcaac gcgtgctggg aactttactg cctcgagcac ggcattccagc ctgatggcca 240  
agtgcctgga gataagaccg cgggacatca cgatgatgcc ttcagcacct tcttcagcca 300  
gactggtgct tggaagcacg tttcccgtgc aatcttcgtt gatctagaac ccactgtgat 360  
cgatgaggtg cgcactggca cgtaccggca gcttt 395

<210> 36459

<211> 399

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-046-Q1-K1-D12

<400> 36459

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tgtttgactg cctatttttc ctgcccccg tatggttggg gcaatgaggc gtagtggtcg 180  
ataataaaac ccagcggaaac aaagaaaacg tgtaccagaa actgtttgca aacaccggtg 240  
cctttttttg tggtgaacca ccattagttg agccgtgaag gaatggtgaa caagctttcc 300  
acttgctcat ttccgagcgc ttctctttga ttgtatccat ggtttggtgact catgactgta 360  
cgtcttgga gttggcttgg caccaggaa tctaatac 399

<210> 36460

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-D2

<400> 36460

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 gatttccttt ctatcttttc ttctgcagat tatcggatca aggaaccac ttaatgtgat 180  
 taaagctctc ttcatagctt tgaatgctgt atgtgccat ttcttgctca aaatctgccc 240  
 aattcaatct cctcatcctt gatatttatt tgtttataga tcattctctc taatttatca 300  
 atcattttgc ttccagattg aaactcctaa ggatgtccaa cagaagtttg ggcgtactgt 360  
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<210> 36461

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-D3

<400> 36461

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 ggcatcaagg gccgcctcaa ccgcctaccg tccgcctgtg tcggcgacat ggtcatggcc 180  
 accgtaaaga agggaaagcc cgacctcagg aagaaagtga tgcccgccgt catcgctccg 240  
 cagcgcaagc cgtggcgtct caaggacggg gtctacatgt acttcgaaga taatgctgga 300  
 gtgattgtga atcccaaggg tgagatgaaa ggttctgcaa tcactggacc tatcggcaag 360  
 gagtgtgctg 370

<210> 36462

<211> 223

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-D6

<400> 36462

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 cttcatggtg gacgacatgc ccatcaagga cttccgcaac ctggagagca agggggtggc 120  
 gttccccaag agccagccga tgcggctcta ctccagcctg tggaacgcgg acgactgggc 180

gacgcatggc gggcgcgctca agacggactg gtcccacgcc ccc 223

<210> 36463

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-D8

<400> 36463

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gaggaagaac atatcagtgc ttctgaatca atagacacag ataagaatgc agacaaagaa 120

ttgcttgtgg ctgctagacc caaaaccaag gtcaagaaac ttgcaaaag aatacttcgt 180

caggcccat ctcagtcaat gaaattgaaa gatcttaagg tcgccgttga ggaacactca 240

aatgttgtat tt 252

<210> 36464

<211> 406

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 36464

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ttggatttgg ttcttcttat tatcatctca acccgaatga cgccacccta gtttgggaca 180

gactgccaat gacgattgct ttcacttctg tcatggctat attcattatt gaaagggttg 240

atgatagagc agggggcaaaa tcccttgac cacttgtgat tgcgggtgcc ttgagcatca 300

tgtattggag acactntgat gatcttcgcc cgtacgcagt agttcagttt gttccatgca 360

ttgctttacc tgtgatggct atagtaattt caccgatgta tacaca 406

<210> 36465

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-E10

<400> 36465

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gagtaggggc gtgtcggcgg tgaaagcgac tgcgtcagcc atggcggacg aggagcattc 120  
ggagaggaga gaggaggcct ccgagcttgc ccccttcgac ccgaccaaga agaagaaaaa 180  
gaagaaggtt gtcaccaag aaccttctga tgaagtggac aagcttgcag agaagacaga 240  
aacactggca gtcgcagaac ccgctgaact taacttcact ggaatgaaga agaaaaagaa 300  
gaagccggtg gatcttgatt caactcttga tgagcttggg gatggggagg aactcaaga 360  
tgatcaagct gtagaggaac aagggaagg cattgtgctg ggaagtgtcc ctacata 417

<210> 36466

<211> 228

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-046-Q1-K1-E11

<400> 36466

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tttaagaaa aaaaaatttt aaattttttt ttttttttnn ngaaaaaaaa gnnnaaaaaa 120  
aaaaaaaaatt tttttaaaaa tttttccctt gtaggaggtt gaaattaaaa aaaaagcatg 180  
gtggaaaaaa aaaaaaaaaa attttaaaaa tgaccccttc tttctttt 228

<210> 36467

<211> 381

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-046-Q1-K1-E2

<400> 36467

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cactgcactg ctccgccccca ggccggcagt tccagccaag aggagtgcc tccatgcggt 120  
tgctgggtgg acgacgatga ggaggagggg agctgcangg gtcgtgcgag ctttcttcaa 180  
ccctctcggg gatgagcgca tcctccgaga agccatcaag gagccagtag cattcatggg 240

tggtgtgttt gctggcctct tgaggcttga cctgaatgaa gatcctctca aggaatggat 300  
aagtcggaca gtggaggctt ctggaatagc tgaggaaaac agctctgaag aatcaagtga 360  
ggcagatcaa aatgatgcac c 381

<210> 36468  
<211> 447  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 36468

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gttaatttac tagtgtgcc cgacaccnac aaaaccaccc aatattaact tccttcattc 120  
ttattctatt ttactacca taattactat ttaacctgtt attttcttcc taactttctt 180  
taacactttt attgattatc tctttctctt ataaaccaat ctattttcca ttttcaatca 240  
ttaatattha ttttttttta tttattaaat ttttatattt ttttttatta attttatttt 300  
atttaatat ttttttttcc cttttttatt tattttattt aatttaaatt tttttttatt 360  
ttattttatt ctttttttta ttataatat ttaattttat tcttttatta tatttttttt 420  
ctatttatat aatttttttt cttttttt 447

<210> 36469  
<211> 353  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-046-Q1-K1-E4  
<400> 36469

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cgtcagcatc agaaggggtcc aaatgaactg ttggagcaag ccaaagctgc tgctcaagca 120  
gctcttgagg agatggatgc tgactaagaa acaagacgat ttgccagac ttggtgtttt 180  
tggtgctgtt gaaatctcog atccctttgg ggtgaccac tggacatggc caatttgtca 240  
caatttatta ttttgacca tgtcatgtga aactcctttc gttgaagtct ggtatctaga 300

ttgacttgta tcagagctgt ggtttacgca aactggattc tggagtactg gac 353

<210> 36470

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-E5

<400> 36470

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gctctcaagc tgatctttat catgtgatga tatatatgtt cctgacccctg ctgagactga 120

gaaaatcaac tgtttggggc caaaagaact tcaatatgtg ttacttctgg cttgatcgct 180

gtcaggatgc tcttcccaaa accttttatc tgaaaaactt cataggagag attcagggtca 240

cacttatcgt tctaggacat ctgaaatgga tccagattct gacctgattc gccgagcacg 300

tatgatgatt tcaattcagc gagttttgtg catcaatgat acatccattg agtt 354

<210> 36471

<211> 358

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-046-Q1-K1-E6

<400> 36471

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gtacattgtg cttgacattg aaacagaatc gcctgaaatt tgcacgatg ggtctcggtg 180

ccagttggct tatgcgcagg ttgcccggat gtcagatttc gggaagaatg acgccatctt 240

tactgtgagg acgcatcttg ggcacatgct gaatcctggc gatcacgccc ttgggtatga 300

tctgtatggt gccaacctga atgatgatga catggacatg gctatgaccc ggtacagc 358

<210> 36472

<211> 392

<212> DNA

<213> Zea mays

<223> unsure at all n locations



<223> Clone ID: LIB3069-046-Q1-K1-F1

<400> 36472

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cnaagcgagg taggggaggt tcggctggga acaagttccg catgtcactg ggtctaccgg 120  
tggcggccac ggtgaactgc gcggacaaca cgggcgcca gaacctctac atcatctccg 180  
tcaagggcat caagggccgc ctcaaccgcc tcccgtccgc ctgtgtcggc gacatggtca 240  
tggccaccgt aaagaaggga aagcccgacc tcaggaagaa agtgatgccc gccgtcatcg 300  
tccgccagcg caagccgtgg cgtcgcaagg acggtgtcta catgtacttc gaagataatg 360  
ctggagtgat tgtgaatccc aagggtgaga tg 392

<210> 36473

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-F10

<400> 36473

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tacgattgcc aaggagggtg gtgtttttga gttgtctaaa gtgtgttgc aatctgaccc 120  
gcctttgccg catgttgtgt gggaatctgc agcatctgta ttgtctagca ttctacagta 180  
cagtactgag tttttccttg aggtacctgt tgcagtacta gtgcaattgc tcaggtcagg 240  
aactgaaagc actgttgtcg gtgctttgaa tgcccttctt gtattggaga gtgatgactc 300  
aacaagtgca gaagcaatgg ctgaaagtgg tgctgtggaa gcattgcttg atctcctgag 360  
gagtcacag tgtgaagaaa ct 382

<210> 36474

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-D1

<400> 36474

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caaatataat tgcacctctg gtgcaactcc tgcaactgc tgaatttgac atcaagaaag 120  
 aagcagcctg ggcaatttca aatgccactt ctggtggcac acatgatcag atcaagtacc 180  
 ttgttgccca gggttgcatt aagccactct gtgatctgct tgtttgcccg gatcccagaa 240  
 tcgtaacagt ttgcttggag ggtctcgaga acatcctgaa ggttggcgag gcagagaaaa 300  
 accttgggtgc aagtgatgtc aatgtctatg cacagatgat tgatgatgct gagggcctgg 360  
 acaagattga gaacctgcag agccatgaca acaccga 397

<210> 36475  
 <211> 389  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-046-Q1-K1-A6  
  
 <400> 36475

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 gaagagcaat ccccatgtct ggcatcatcc acaagatcga ggagaagctc cacatggggg 120  
 gcgaccacaa gaaggaggat gagcaccaca agaaggccga ggagcaccac aagaaggagg 180  
 aggggggagca ccacaagaag gacggcgggg agcataaaga aagcatcgtg gagaagatca 240  
 aggacaagat caccggcgag cacggcgaca agtccggcga ccacaaggaa aagaaagaca 300  
 agaaaaagaa gaaggagaag aagaagcacg gcgagggcca cgaccacgac cagcagggcg 360  
 gtcacagtag cagcagcagc gacagcgac 389

<210> 36476  
 <211> 211  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-046-Q1-K1-A7  
  
 <400> 36476

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 ctcagcagag atatcttgct caattgctgt tgaaactgct gcagatcggc accctggagt 120  
 tgagcagtac gctatcaggt cattcgctga tgcattagat gctgttccac tagccttggc 180  
 tgaaaacaag ggtttgtcgc caattgatac c 211

<210> 36477  
 <211> 311  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-046-Q1-K1-A8  
  
 <400> 36477  
  
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 ctcttgcggt tagcaagatc tattaggata tgatagaatc ttattgaaat aagatggatc 120  
 tattaatatt agaaagacta ttgtctgata agatgggtct attgaaataa gagagaatct 180  
 ttttaagaata gaaggatcta tatgaaatag atgatctccg ctgttttaggt atcttatgga 240  
 ctctatctat gattatatgt atatgcacat gtaattatgg acattactcc acaacccatc 300  
 acactcaatt a 311

<210> 36478  
 <211> 397  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-046-Q1-K1-B1  
  
 <400> 36478  
  
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 tgcattcgac caacctgctg ctggaggagc ccatccggat ggctccatc ctggagccat 180  
 ccaagaccag tttcttcccg gcgatgacca agatcgtcgg cacgctcggc cccaagtcgc 240  
 gctccgtcga caccatctcc tctgcctca aggccggcat gtccgtcgcg cggttcgatt 300  
 tctcgtgggg agacgccgcc taccaccagg agacgctcga gaacctcaag ctcgccatca 360  
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<210> 36479  
 <211> 340  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-046-Q1-K1-B10

<400> 36479

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tgctttcagt ggaaatttca atctgcagaa cctgctcatc ttgactgcta tcaaagcaga 180  
tccatccaga gtcattgact atgtcaacag acttgataac ttctatgggc ctgctgttgg 240  
acaagttgct gttgaatcac aactgtatta agaggctttt gctatattca agaagttcaa 300  
cttaaagtgt catgctgtcg attttctctt ggacaacatc 340

<210> 36480  
<211> 321  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-046-Q1-K1-B11

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cagcctttca ngccgccacg gtgcattctg cagctctctc gactncacac tanancgagc 120  
gagctgccac agacaaggac acaatgccac ccatacccaa gagaggcgag catctcctgg 180  
tcctcctagt tgctgcatgc gctgccaccg ccgccaccgc cgtcggcacc gtccccctct 240  
accgctccgc ggagtcctct cccgccgctc actgctacgg cactctttac ccggagctct 300  
tcctgtccac actcgcatat a 321

<210> 36481  
<211> 373  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-046-Q1-K1-B12

<400> 36481

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aaaggctcgag gaagacatcc gtcagcagtt agaagaatgg aagcagaagt cagtatcact 120

tgagatgaaa ttggaggaag ttactctatc tgagaagttc aaaagtgact cacttgtttc 180  
cacgactgaa gagctgtaca agatccagtc gatattgcaa gatcgagaat cggaaattga 240  
agttcttaaa ggaaagacaa ctgccttgga aatcgagggtg acaaggcttt tagcagatgt 300  
gactgattca aatgagcatc ttgatgcac acagcaagag gtgtttgggc tgcagacaac 360  
aatagatggt ctg 373

<210> 36482

<211> 317

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-046-Q1-K1-B4

<400> 36482

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aaatcgggct ggtctcttgg ttcaatggga ctgggtgtgaa atttgggtgga aggcttgga 120  
tgtcatggca actctcattc ngggggctgg tgctgctgta cttctactcg cactatttct 180  
ttggcagtgg ggccgcacac atcggagcaa tgttcaccgc gttcctgtcg ggggcgagtg 240  
ccctgggcac cccgtcgctt ttcgtcgcca tggttctttc attcctctcg aacctcatgg 300  
gcgggaccac ccactac 317

<210> 36483

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-B5

<400> 36483

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gcaagggggg tatccatatg gtccaagggt caactccctg acttattttt tctaagac 120  
tcaaggattc gaaattgaaa ccatgctttc tcccttgacg atgaaacttc caggggttcg 180  
gtgggaaatg caagtacctg gaagagagca agtgccttgg catttgcatc aacacatgca 240  
aactgccac tcagactttc ttcaaagatc acatgggtgt tgatttgtac atggagccaa 300

atTTTgaaga ctatagctgc cagttcaact tc

332

<210> 36484

<211> 151

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-B6

<400> 36484

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accagcga cATTgacagt gactactatt agtggcaggc agtggtgat tttgagtttc 120

caataaacac gaataactga tgaatacaat c 151

<210> 36485

<211> 254

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-B8

<400> 36485

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gcacagatgc acgtaggaag aaataatcag cacctataa acgatgcaa cggaaccca 120

gcaacgttac ctccgactga actatcagta ctggaagact ccacgtttaa ggtcgttcgc 180

ttgtcgctg aagagagaaa ggaaaagatc cataggttca taaagaaact gaacgagaga 240

aatttcctcc aaaa 254

<210> 36486

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-B9

<400> 36486

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aaactaagt atgagatttc aatgctggag aaaacgtctc cggggctcca acagtcagta 120

ggattctgcc ataacgatct gcagtatgga aatattatga tatatgaaga gaccagacaa 180

gtcaccttga tagactatga atatgcgagt tttaaccag tcgcattcga cattgctaata 240  
 cacttctgtg agatggctgc tgattaccat acatcaacac cacatgtggt ggatttttacg 300  
 aaatatcctg aactgggga gc 322

<210> 36487  
 <211> 399  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-046-Q1-K1-C1  
 <400> 36487

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 gtcgactacg ccaggcctgc cggagaggta aaccttgtag agtggctcaa gaacaagggtg 180  
 accaacaggg actacgaggc catcgtggac ccgaagctgc cggagaagcc gtcctccaag 240  
 gctctcaaga aggcgctcct ggtcgcgctg aggtgcgtgg atcccgactc gcagaaacgg 300  
 cccaagatgg ggcacgtaac ccacatgctc gaagtcgacg acttcccgtg tcgagaggac 360  
 cgtcgaactc ttcgccggg caacggcagc cccctggag 399

<210> 36488  
 <211> 398  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-046-Q1-K1-C10  
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 tgccatccaa tctgtgccgc cttttctcgt ttggcgagat ccaggcggcc accaagaact 180  
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 acagtggcac gatggtggcg atcaagcgcg ggaacccgac gtctgagcag ggcgtccacg 300  
 agttccagac ggagatcgag atgctgtcga agctccggca ccggcacctc gtgtcgctta 360  
 tcgggtactg cgacgacatg aatgagctga ttctagt 398

<210> 36489  
 <211> 403  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-046-Q1-K1-C11  
  
 <400> 36489

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 atatgtagat gtacaacgtg aaaattctta tgtcagaaca atcagaagta caaatatcaa 180  
 ggccttctga ttctggccgt tctagtttca ttacaagaga agtgttcaca taatgtgatt 240  
 catagacagc ttctgcaatt tctttaatcc tggcaagttt tcagtttagca acagtaagtc 300  
 catatttggt tatttttatt tttatgttat tttatttaat tatttttatt tttttttttt 360  
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<210> 36490  
 <211> 378  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-046-Q1-K1-C12  
  
 <400> 36490

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 gcaatggaag gcttgcagag tcaacataat attttgaaga tctattatgt ggtctagctt 180  
 gtttctagga atacagatta agaaccagtg gtagagccct acggcagttg agtcttcttt 240  
 ttgttactca cataagtcaa cattttttgt tgtttccatt gaatagttag gactattttc 300  
 agttattcaa aatcaaagaa agttgcaagt taattcatat atatgtaata aaagttcttg 360  
 gtaattatct ataagcac 378

<210> 36491  
 <211> 186  
 <212> DNA  
 <213> Zea mays



<223> unsure at all n locations  
<223> Clone ID: LIB3069-046-Q1-K1-C6

<400> 36491

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attcaccctg acaaaatata ttccattcta tggaggagca gaataccatg actatcatca 180  
ttatgt 186

<210> 36492  
<211> 365  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-A5

<400> 36492

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ctaattggcg ttcggcgggg acgccaagac gatgggccc ttccaacggg ccattaacgg 120  
tttcttcccc gaccggcacc tttttcaagt ggagtagcgt cttcaggccg tccccagg 180  
caacgccgcc gtgggcgttc gcggcacgga caccgtcggt ctcggcgctc agaagaaatc 240  
cacaccaag cttcaagact tcaagtccgt gcgcaagatc gcgtgcctag aactcacat 300  
aactctggcg tgcgcggggc ttaaggcgga cgcgcgcgtg ctcatatacc gcgcgcgggt 360  
cgagt 365

<210> 36493  
<211> 269  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-C8

<400> 36493

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tatattaata gaccatacaa ttaccttaa tatactataa atatoctaatt ttaacccaa 180

tcttattcca catttcaaat cacttatgtg aaatatcttt ttattaccat acatcaacac 240  
cacatttttt tatattttac taaaatatt 269

<210> 36494  
<211> 306  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-046-Q1-K1-C9  
<400> 36494

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<223> Clone ID: LIB3069-045-Q1-K1-H10

<400> 36496

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gcgggcgctt cagcggccaa cgctcggcgc tacaacggca acctggcccc ccgctgtctc 360

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 gcgcgtcgcc gctgtctaca aggtgaagct catcggtccc gaagggcagg agagcgtgct 300  
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<211> 375

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-G9

<400> 36509

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-G4

<400> 36521

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tcgtgccgac tttgacgatg ctccgcgcaa tgaaggcgcc actagttagc gccacccgct 180
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agaagatc 248

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<210> 36522

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-G5

<400> 36522

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cgaacgcatg acccggaacg agcccaggcc cacaacaaag acgaccaaca caaaagagag 180  
acctaaaggc cggcaaaagg gtacaagtgc caagccaa 218

<210> 36523

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-G6

<400> 36523

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acccttttgt tgatgctaag tacatggccg ttcgcaggat agaggtgggt aggcttctaa 180  
gcatactaaa tttctgcatc atgatgaatc atatgtgatt tgtttcgatt caactggata 240  
gaagaatcag ttgctgattt gatggagtcg cagcttgctt ggcggacata gggctctgtt 300  
catggattat ggtttatgtg ccagcggcca gtggtagaca gtgtgattca atgtgcttgc 360  
tgttcatctg tccaaaactg ctaaagtagc ttctgaaaat ggatgacatg ctggacactt 420  
gctcactcgg ttc 433

<210> 36524

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-045-Q1-K1-G8

<400> 36524

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ttgagctctt tgatatgggt gctggaagta gtgagcctgc tgctgaggac aatattcaaa 180  
tggcatcagc catgacaaat caacaactca ttgatacggg aaggaaccaa atggacaaaa 240  
cagatcaagc tattgaacgt tcaaaaatgg tcgtagcaca aactgttgag actggagctc 300  
aaactgctgc gacattaaca cagcaaacag agcaaatgaa gagaattggg aatgagctag 360

atactgtcca cttctcactg aagaaagcta gccaaactagt gaaggagatt ggtcgccagg 420  
ttgcgactga canatgta 438

<210> 36525  
<211> 404  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-F11

<400> 36525

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ccatcgacta cgcctgcagc aagggggccg actgcgcctc caccaccaag ggcgcgccgt 180  
gctacggcaa cggcaacaag gtggccgtct gctcctacat ctgcaacagc tactaccaga 240  
gccgcagcgg catggggcgc acctgcgact tcaacggcgt cgacaccctc accggcaccg 300  
acccagctc cgggacctgc aagttcgctt ccggccccag cagcgtacgc accggcggcg 360  
gcgctggtat gggcacccgc ggagcatgcg ctggcgctcg cggt 404

<210> 36526  
<211> 438  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-D7

<400> 36526

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tctttcataa ctgagcatat tctgcatcat ggagtttctt cggatgctat aggaaattct 180  
tccaggaatg cagagtgttt tgttggtgca gcaggccaag acagtcatca tgcagccttt 240  
aagagaaagt atcttgatgg atgtcatgca gagtcttctg ctaacggaag ctacgcgaat 300  
cgtcaccaga ataatagtag tctgctacct cctccgacca cctgtgaaag ttttactata 360  
cccaccgcaa caaatttttag tggtccgtac catcctgtgg agcagctaaa ccagagtact 420  
aatattgctg caagctct 438



<210> 36527  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-045-Q1-K1-D8  
  
 <400> 36527

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cacttcgagg agtgccggga ggtgagcgtg cagggcgtga cgctgcagaa cgcgcagcag  120
ttccagctga cgttcacgcg ctgctcctgc gtgaaggcca gcttcctccg ggtgggtggcg  180
ccggcgggaca gcccacacac cgacggcatc cacctcaacg acacctccca cgtccgcac  240
acggacaacc tcatctccac aggggacgac tgcgtctcca tggtcggcaa ttgctctgac  300
gtccgtgtga aagacatctc atgtgggcct ggccatggca tcagcatcgg aagccttgga  360
aagaaccgga ccaccgacat ggtggaagac gtgaaggtcg acacctgctt gctcaccaac  420
acgaccaacg gcg                                           433
  
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<210> 36528  
 <211> 431  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-045-Q1-K1-D9  
  
 <400> 36528

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gtgccctccg cgctgggtga gaagaagcgt accagtcggg cgctgcggcg ccgtccatgg  120
cgagagagag cgtctgcagg ccagccgaga gcccagacc agtctgctcg tgccggtgtg  180
ggtgacgggc gttgcgtcgt gtccaagagc aaggtacgcc gtacgctgaa gctgctatgc  240
cttttggccc tgcgtcgtgt ctttcgacgt tggttggtgg ccctggcacc acgcctgga  300
gcggtgaggc cgccggtggg ccgggacggg aggcaggccg ccgccgggtg ctacagctcag  360
ctctgtccta gcgcgcgcca tccatcgatc tncgncaccg gccacaccac caactgcaag  420
ctggctgttg a                                           431
  
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<210> 36529  
 <211> 439  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-045-Q1-K1-E1  
  
 <400> 36529  
  
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 atgagttcct tgaaaatgct aggcttttta ttttcgagac atactgccgt atccatcggc 120  
 gcatcgatat cagcatgctt gtcagaagt tgaacatgag ctacgatgag gccgagttgt 180  
 ggatcatgaa tttgggttaga agctcaaaac tggatgccag gatcgattca gtatcaggaa 240  
 ctctcatcat gacaaccaat cagtcfaatg tccatgagca gattgttgag agcttgaagg 300  
 gccttaatat gaggacctac atgctcgcaa agaacatcgt tgagccagct cagcaggcaa 360  
 ctcggtgagg atagcagact tcacagtttt gagacgcaa ggactagttt agagacaact 420  
 tgtaactttt cgagctcta 439

<210> 36530  
 <211> 430  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-045-Q1-K1-E10  
  
 <400> 36530  
  
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 tggagacaag atgctctcat aaataacttt caatcttctg aaagattcat ttgcagcaaa 120  
 agttgcacga tggaccacga taactattat tgtcggtttc tctgattcaa ttaagtggga 180  
 acccttggtg gtgattcaat taagtgagaa gtgagaacct tcattgtgct atttttttgt 240  
 ttcaggatgat cattcctttc acaaaatatt ctttagtgat aaaaccatta gcttagagta 300  
 tggaaggggt gtgtccagca aggtttatga cggatagtct tcgctgttat gctgcgtact 360  
 cgatgtgttg cttttctcct accattcttt gggttggat ctatctttgt agccgaagaa 420  
 acaatcctga 430

<210> 36531

<211> 434  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-045-Q1-K1-E11  
  
 <400> 36531

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ggctgcaggt caaggagtga gaacaagaaa gccttctttg aagttggggt gttgaggtgc  180
tctgaagaag tattagcgtg tcttccatca gtcagttctc tcataatttc atcttccttt  240
ccttggtgttgc tcttggcct ctctttctgt gtcctgcac tctcttgta tggactcctc  300
tcagcttact ggggacaata ctgaagagtgc caacagtaat gaatctgggt ggacgatgta  360
cctgngctcc ccagtgaaca gtgatgatct caaagccaat ggcagcanat ggagtaataa  420
tgttggcagt ggct
                                                                 434
  
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<210> 36532  
 <211> 431  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-045-Q1-K1-E12  
  
 <400> 36532

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ccagttaacc atacacatac acttgcgata gtgtggcaca gcatgtgcaa ctgtggatat  180
actcatcttg cacgcagcca tcgtcgccgc tgccatcgtg catcacctga gcatgtctcc  240
aaagtccacg aatggggccg cgccgctcag aatcgatgag gcgctgaaat tggtttcgcc  300
ttcgtcgaac gcgatcctct ggccgaacgg ctgcggcctg tccggcaggt cgggcacgtc  360
catatcccc tccagcatcc tcagtgcctc cggcatggtc gggcggaacg ccaccgtgac  420
gtgggcacac a
                                                                 431
  
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<210> 36533  
 <211> 225

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-045-Q1-K1-E2  
  
 <400> 36533  
  
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 gccttggtgtt tttgttgtct gcttttctct tgaacgaaga tgtgatgaac tcagctgaag 120  
 atgtagtggtg tatgttgtca tggtttattt ttctatttta tttatctatc tataatatct 180  
 atcggagaag gtttgatatg aagcggaaca ctgattaacg atgcc 225

<210> 36534  
 <211> 434  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-045-Q1-K1-E3  
  
 <400> 36534  
  
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 taagtctttg tcacttcaat aagcgtcctg tatggtgttg cctgtagccc tgtatggccg 120  
 aagctactaa aggtaattag ggtttgataa agttaagca accgagtccc aaacttttga 180  
 tcttgattcg tgcaaacggg gacgatgcaa cacattttca aggtattctg gacctttatg 240  
 aagcatgctc tgggcaggtc atcaacaaag acaagtcttc tgttcactaa aaatacgaga 300  
 agtgagacga agatggcggg catgcaagct ctaaatttaa cacaagggac tttcaacgac 360  
 agatatctgg gcttaccagt tcgctttggg cagtccagga caaaaacttc ttagtactta 420  
 aatgataatg tgac 434

<210> 36535  
 <211> 320  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-045-Q1-K1-E4  
  
 <400> 36535  
  
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 gccagattta tttgttgacg gatagcacgt ataacgctga acaattcaact ttacctgctc 120

caataaactg aacgataccta agaccaataa gacgtactgc tagaacaaag agagcatgaa 180  
gcacacactt cacaagggtga ctactatac gaagggcaat gatagcctgt atgaccaggg 240  
aaaacccccga ttgaccaca agcagacatt atatagtggc cagaccaagc ctgtattcca 300  
caagaagacc aagaccacca 320

<210> 36536

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-E5

<400> 36536

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cagggaaaaa aaggaagcga agagaagaca aaatacatgg acaacaacc aacgcaaac 120  
aggggagctc gagctcgagc tcccaggcta aacgccccta ccttgcccc gccatgcacc 180  
agcttcggcc cgcgcgggtc caacgcacgc cccgcgagat cgccaggacg gcaccgcaa 240  
acccccggcc ggccccaacg gctgcgggtc ccgagccata ccgcctgccg cccttgcgct 300  
agcaggggaat cggcctcggg acctccccgg tcccgcccat c 341

<210> 36537

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-E6

<400> 36537

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ctgctctgtc ttctctccc ttcaccagat ctgctgggtg caggagctt cacagtgatg 180  
gatctgaaga gaagtgggaa atggcagaaa agaccgggca gctaggtatt gtgcacgtct 240  
ctgtgtccgt ccgtcgccgg atctggctgt agtggagacg tagtgtctga tcaggcagca 300  
acagcagcga cgcgtcgata gatactagtt gacgataggg ttgttggtgc aggggcagct 360  
gcgtgttgga cgacaacgcg gtgcccctgc cgttggaag cgtcgcgccc gtggcggca 419

<210> 36538  
 <211> 435  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-E7

<400> 36538

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 gaagccatat tcgcactggg actaaagtta ctgaagaagc aggacagccc attccacgta 180  
 ggcgcctaaa taaaggcaac agaaaagcgc acagctcacg taaacagaga ttctttgctg 240  
 gtaattttgt gaataatcct gatcagtatg gtgggtgtgtc agaaagccct ccaggcaatt 300  
 cagttggata tttctatgga tctactccag aaaatcacag ttataaaagt tcaaagctga 360  
 gttcatctcc tcatggaatt cctactggga gctcgctgtg tgggtctgtg cccaaatctt 420  
 ctccacaatc tcagc 435

<210> 36539  
 <211> 270  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-045-Q1-K1-E8

<400> 36539

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 agttgttaga tctctacagg ttgcaactga aggtgctaac gtgggtggacg gtgaactgta 180  
 ggagctaatc acaagactga tttaacagtg atatctcacg gatgtagaaa ttctacgctg 240  
 gtaataatac gattaagcat ggtcattcat 270

<210> 36540  
 <211> 431  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-E9

<400> 36540

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gcagatTTTT ctggtgcaac gcttgctact gccgcaaata ttggacgcc tgcacaggca 120  
gatgttgatc tgtcacgaag agcaatggat aaagcgatga tggatatgct gagagcttct 180  
tttgccaata gaaggaatga gcataattgg tctggcgagc ggaaatttga aagatttgaa 240  
gagtgtcag gttatagggg tacatgggcc gcaaaaatgg ggaagaggcc aattctgatg 300  
gaagatagtc gccgaagcac atattgtgag actcaaccat ccaattcaat atatgagctg 360  
ccggtatcgt catcctacaa tgggacaaaag aagctgctag taccagttgg ggttcagtta 420  
cagcagtcct a 431

<210> 36541

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-F10

<400> 36541

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tagttgacaa tcatgaagct tacaagaaga ggaacctgaa aaagaaggct agcgaagacc 180  
ggtactacac acaaaagaaa ttcgtttctg gagactagtg ctgcacaagg agtgtatatt 240  
tctgccagca gtccgaggaa atgcatgtgc caccctgtat tgatgttatt ctacagcaga 300  
gactggaaca gataatcagc attagaaagg tcacaatgat agtttgacag gcaagcaatg 360  
gtgtggatgg aaccaagcta gggaagagag agagagagag ggagaaaact gtcacattct 420  
tctgct 426

<210> 36542

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-C12

<400> 36542

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atgaagggat ccctgcgcag ctgtgctccc gtagctgcaa cagtctgttg gatgcaagta 120

tcgtgatgtc acgagtttgg gatttgttgc attccgactg catgggcggt gttgtgaatg 180

ggcatgaaat gccgtgtcct gtttgttgtt gatacttgtg ttagctgct gaagtgttgt 240

tgttgatgca gtactacttg tgtatacttg tggaaagaga gtgcgcatag gcttagaaag 300

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tgttggcacc g 371

<210> 36543

<211> 441

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-045-Q1-K1-C2

<400> 36543

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acttcgagat ccgggtgcag cccaacgaca cgattatggc tgtgaagaag aatattgaag 180

agatacaagg aaaagacagc tatccatggg gccacaact gctgattttc aatggaaagg 240

tcttgaaaga tgaaagtaca ttggaagaga ataaagtcaa tgaggatggg tttctagttg 300

tcatgcttag taagggtaaa acatctggtt caactggaac ttcattctcc cagcactcaa 360

acactcctgc aacaaggcag gcacctnctc tagaggcccc acaacaagct cctcaacccc 420

cggtggcacc aattacaact t 441

<210> 36544

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-C3

<400> 36544

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gtcgaccgcg gaggcgagga acatcaagac gacgacgacg acgacggaga agaaggacga 180  
tgcggtggtg cagccgcaga ccttcccgcc ctctgaccgc ctccggcgcg gcgcgtcccc 240  
ggcgtccggt ggcctccccg gcacctcgtc gggcggcagc agcattccag cgttcagcat 300  
gccgggcagc ggcagcagcc tccccggcgg gtcgttcttg cccggcagca gcggcagcat 360  
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cgggtcccc 430

<210> 36545  
<211> 430  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-045-Q1-K1-C5  
<400> 36545

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cacaccgccc ccggtgtgct ctccatggcc aacgcgggc ccaacaccaa cggctcccag 180  
ttcttcatct gcaccgtcgc gacccttgg ctgcagggca agcacgtcgt cttcggccag 240  
gtcgtcgagg gcatggacgt cgtcaaggcc atcgagaagg tgggcacccg caacggctcc 300  
acctccaagg tggtaagggt cgctgactgc ggacagctct cctagatctc tctgatctgg 360  
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tgaataagat 430

<210> 36546  
<211> 434  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-045-Q1-K1-C6  
<400> 36546

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ccgtctcgct gctcctcctc cgctcgcaga gctgagctga tcgatggacc acgagcagcg 180  
gcgccagcgg cagcagcaca gtcccagagg caatgctcct gggagcggga ggtgcggctc 240  
ctcgctcgagg aagcacaagg gcgggggcaa gaaacccatc aaagtgggtg acatctccaa 300  
ccccgtgcgc gtcaagacta gcgccgctgg ttcccgcgcc ctcgctccagg agctcaccgg 360  
ccgcgacgct gacccctcca agtacagccc cgaggacctc gccggcgccg ccgtggcggc 420  
gggcgaccct gact 434

<210> 36547

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-C7

<400> 36547

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ttcgggtatag tcttagtcac tgaatcctac agctgggtcag aacttgaggg cataagcata 180  
ccctcatggc tcgcaacagc actcgctgaa cgtatgctta aagcatctgg atcagatact 240  
ctttgaccag gaaacgcac gtcggcggtc agaaacgcat tagtattgag tacatgtcca 300  
acttctacg cgtcaagact agctgcattg gtacacgagc cctagttcag gagcataccg 360  
gccgttacga tgacct 376

<210> 36548

<211> 243

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-045-Q1-K1-C8

<400> 36548

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tcattctcaag tcaaaagaga aacagaacaa gcactacaaa taaatgctgc atgtgctaca 180

acaatatggt ttttttgtcc atgcatgtga aagtgaata attaactatt gtgtggatgg 240  
agt 243

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<213> Zea mays  
  
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<400> 36549

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tcagccttct catcgccacc aatggccact gccgaggtcc agaccccgac cgtcgtggcg 180  
gccgaggaag cgcccggtgt ggagaccccg ccgcccggcg tcgtgcccga ggagtctgcc 240  
cccgccgagg ccgaggccga ggccgaggct gctgctcctg ctgatcccga ggagcttccc 300  
gcggccgagc agcaggcagc cgccgaggcg gaggccgcgg ctctgctggt tgccgaagag 360  
cccgtcgcgg ccgaaccggc cgtcgaggcg gaagctgctg ctctgctggt tccccgagag 420  
ac 422

<210> 36550  
<211> 410  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
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<400> 36550

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gcgacgcggt ggcggtggac agggtcagcg tgaggctcgg ccgggtcgcg ccgggggaca 180  
tcgtgctgat gatctcccc gaggaccgc gcaagtcggt cgtcaagcgc gtcgtcggga 240  
tgcaggggga ctccgtcacc taccttgctg accccggcaa aagcgactcc tncagaaccg 300  
tcgtggtacc gcaagatcat gtctgggtgc anggtgacaa tatctttgct tctaacgatt 360  
cgaggcaatt tggagctgtg ccttatgggc tgattacagc gaagatcttt 410

<210> 36551  
 <211> 432  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-045-Q1-K1-D10  
  
 <400> 36551

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 aacatccaca gcaagtgcag cgtatccgtc ggcgtgcca tcagccgcac cgtcgactgc 180  
 accaagatca actgatcgat ggaaccatag tggagagagc tcgctccttg gataaccgcg 240  
 gacgtggcca ttatcagcat gcagtcagcg tagtaccata gatgtactag ctacatgtgt 300  
 gtcatgcac agactggcac ataatacaaa agtagatcat gcacgcacta gtgatcactc 360  
 accccagtgt cctccgac aatgtcgtcg tcttcgtcgt gtaccttacg tgacacgctg 420  
 taacacgtac gc 432

<210> 36552  
 <211> 432  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-045-Q1-K1-D12  
  
 <400> 36552

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 gttacagcag ttacaacttc tcaaggcccc ccggtagacc tagccactgt tatgtgactg 120  
 aaatttacct tttgcagttg ccatcaatat gtcagcctac tctgtcacia acagtcttct 180  
 ctattctgtc tattttaaca aatcatgtaa gacatgcctt catgccatct aacatgccta 240  
 accatcctca agagttgtat acacaagatg aagaacctag ccttccggtc acacaaaact 300  
 cttcaacaac atctttggcg aaactatcta cctgtagcaa cgaaagaaac gaggtacaaa 360  
 acttcttgtt ttcttgccat gtactaccta ttaaaaacat cttatttttt tcacgcatac 420  
 aacttgataa ag 432

<210> 36553  
 <211> 393  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-D2

<400> 36553

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gcgatgtaga agataacagc gcccgctctag aagccgcttg aagcggaaag catttttagcc   180
gctggtcacc tagagatgcg gatcggcctg aatcgtctgc cctagctagg cggattttgt    240
gtaacataat gtagcagcat gtaacttgta tccgccacct cgtcgtcctt cgtctgttcc    300
agtttagaac aatggcattg tccatgactg ttcaagtcca agtgctcatg ttatatattca   360
tagctgttgg ttatgacttg ccactttgtc ctg                                     393

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<210> 36554  
 <211> 432  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-D3

<400> 36554

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taaggacatg aagtgtataa agattgaaga catggaggct ccagtattca aggctttgct   180
ccatttcatg tactgggatg agttgccgga tcttgaagag cttactggtg taaatacaac   240
ttgggtatcc accttgatgg ctcaacattt acttgctgct gcagaccgtt atgcattgga   300
gagattaaag ttgctctgtg aacttaagct gtgtgaagat gttgcaataa acacagtggc   360
aaatactttg gcactggctg aacagcacca ctgctatcag ctaaaaactg tttgcttaaa   420
atattgtggc ct                                                         432

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<210> 36555  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-D4

<400> 36555

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gaacggcaag gagctcgacg gccgcaacat caccgttaac gaggcccagt cccgcggcgg 180  
ccgtggaggc ggcggtggcg gatacggtag cgggcgccgt gatggaggcg gctacggcgg 240  
tggcggtaga ggctacggcg gtggtcgtgg aggtacggc ggcggtgggg gatacggtag 300  
tgcaaaccgc ggcggcggtt acggcaacaa cgacgggaac tggaggaact gagcggtagg 360  
gtccgctgag gcctagttat cttgttcgct tctgctaccg tggtcaccct agtctagagg 420  
gggtttatct tcgtc 435

<210> 36556

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-D5

<400> 36556

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agaagcttaa tacggcgcta tccctgtcc gctacaatga aaaatactac caggacgcca 180  
tcgcctccaa ggatttctcc aaactagcat actttagcga tatttgtgtt ggtgcgatag 240  
cttgtagcct ggagaagaag gaaggaggag cagtccgagt ttatatcatg accttgggtg 300  
tactggcacc gtatcggggg cttgggtattg ggacaaagct gctgaatcat gtgttcgacg 360  
tctcagcaaa gcaaaacatc tccgagatat acttgcattg tcagaccaac aacgatgatg 420  
caattgcttt ctac 434

<210> 36557

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-C11

<400> 36557

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ttgtcgtgtg cgccccctcc gttgcatctc gctgcttctc cttcttcttc gctttgcatc 180

tgagttgagc tggagcatcg atcccgctcc cctcgtcctc cccgacgcgg ctccggctgg 240

actccaccgc gctctttagt tcggtttccc cgtcagagct tccaacctgt tctactcggc 300

ttagattttg gagctagagt ttccaaagca aaagctttcc ttttttttcc ctccctcccc 360

tttgcatttg gcatgagggg aaacgctgcg gtttcgcccc ttttctgagc atgctgtcct 420

tgaacaaaat gcatttt 437

<210> 36558

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-A8

<400> 36558

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cagaagttcc agggcccatc cgccattgcc ggcaagctcg gatctcttcc ctgcagggc 180

tgcgagcacc agatcgtcac cgtcgactgc cagccgtcgg ggcccaggg aggcattgctc 240

gtcttcgtct ccggttccat ccgcaccggc cccgaggagc accccatcaa gttctctcag 300

gcattccatt tgctgccggc agctgggtcc ttcttcgtgc agaatgacat gttccgcctg 360

aactatggct aaaagacagc cgaaaactct tgtgatgaac cgaattttaa aggcttcatg 420

ttgagacgat ga 432

<210> 36559

<211> 184

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-A9

<400> 36559

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 ccaacatatc cctagacaaa cctgtcggcg atcgacgggc cagacgacta gagcggaaca 180  
 acca 184

<210> 36560  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-045-Q1-K1-B1  
 <400> 36560

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 gccagcattg atacctcata tagctgaagc gaagtcacag aaatactcgt atgaagttct 180  
 tttcagaagc ttgcagaaac ttcttattga tactgccact tcagaatacc tgtttactga 240  
 tgattttcttt ggccaagaat ccatattcca tgatatattt gcaggaccga ttcaagttgt 300  
 tgatgaacat ttcaatactg tactcctgaa ctgttatgat gcaattggca taatgcttat 360  
 gatcagaata attcatcagc accagctcat catgtttaag cggcgaatcc catgtttgga 420  
 ctcttaccta gac 433

<210> 36561  
 <211> 200  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-045-Q1-K1-B10  
 <400> 36561

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 caagaccagg acacaaaaaa cagatcaaac aacacaacac accgagaaca ctaaacagac 180  
 atcaccgaaa aaggcaacaa 200



<210> 36562  
 <211> 409  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-045-Q1-K1-B11  
  
 <400> 36562  
  
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 acgggggttcg ccatcaccgg cttcatcatc actaagatga cggccaactt caccgaggag 180  
 gacctcaaga actccaagtt cgtccaggag cacaagaagc gctgaccaac caggtgttgt 240  
 ccgaattgcc tgtctggaca gccagttatg ttatgctgtt tgaatgaaaa attagcttct 300  
 tttcttcat ctaaatacgt gcagcctatg ctccatctgt aatgtaataa gaggcaactg 360  
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<210> 36563  
 <211> 413  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-045-Q1-K1-B12  
  
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 cagactaaac cacaaggagg tgagggttgt gctggtggag caggaaggac catcggggac 240  
 aagaaaatag ctgtggatat agagactgga gcacaagtag tataactcaa gtatgctggg 300  
 actgangttg aattcaatga ctcanagcat cttattctca aagaagacga tatcattggg 360  
 attcttgaga cagatgatgt gaaggacatg aagcctctca aatgaccgtg tct 413

<210> 36564  
 <211> 408  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-045-Q1-K1-B2

<400> 36564

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gcactgacac cgggccccac caccattacc acccgacgca cactttattt agcccacgtc 180  
actcgcagcc cgcaccggac acgtccacgc gacagtcact gctagctacg taccgggcta 240  
cgtacgacac acacacacac acacacagag agacgccagt aaccgtagcg tactgaacag 300  
caaaatcccg tgtcatactg ccatgtacgc gcgcgagaga ctaccccgnc acgcgcgcac 360  
gccgatcccc tggggcctgg gccctggccg ncgncgctgc gtgcgcac 408

<210> 36565  
<211> 262  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-B3

<400> 36565

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ccaccagtag gatttgatgt gttgttggtc tttctagtag gtgacgtgac agacaatttg 180  
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atgttagggc atgtgttaag ct 262

<210> 36566  
<211> 425  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-B4

<400> 36566

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ccaaggtttg gagacagga tgagtaccgt ggtggctctc gtggtgcttc cggtgacttt 180

ggtggcgata agagtggagc tcctgctgag ttccagccat ctttcaggag ttctggcgcg 240  
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 atggagtga cagtgaagct gcccttagtt tggacatgat gtttccctc cctgaggcg 360  
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<210> 36567  
 <211> 388  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-B5

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 <211> 432  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-B6

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 cgcgggctgc ttctggagcg tggagctggt gtaccagcgc ctaccaggcg tggcgcgcac 240  
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<210> 36569  
 <211> 434  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-045-Q1-K1-B7  
 <400> 36569

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 ttccaagaga agggaacaac tggagctatg ataaatgcag acgacagtgg agccttgtgg 180  
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 atgagagatt ttccttcctt tcgtcgtcaa agcagatcgt cagcgacatg aacgatgagg 300  
 aaaaggttat tgtctttgaa cgtggagatt tagtttttgt tttcaatttc catccaaga 360  
 aaacttacga gggctacaaa gtgggatgcg atttgcctgg gaaatacaga gtagccctgg 420  
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<210> 36570  
 <211> 436  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-045-Q1-K1-B8  
 <400> 36570

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 ggctactgaa gacatatgtt ttgtttacac aaatgaaata gaaatctgaa aaaaaaatgt 120  
 tctgtgaaca ggttaccatt agcctggaac tgcgacaaaa taagaataat cgaaaccaat 180  
 aaagcctagc gttttgttgt tctactcggc ctttttcgtg tcctaaactt gtaattttgc 240  
 tggaatattg tacagggcat ctgatgcaag gtgcaaagac tgggtgtttg tctgcggttg 300  
 ctttcaagga gttgtgtgcc ggttgcttgc acatcttta ctctgggtct gaagagcaaa 360

tcagaagtat ttatggttta ggaaatatgc acctgctttg ctggagaact ttgtcctgct 420  
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<210> 36571  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-B9

<400> 36571

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 tggcggccac ggtgaactgc tcggactaca cgggcgcca gaacctctac atcatctccg 180  
 acaagggcat caagggccgc ctcaaccgcc ttccgtccgc ctgtgtcggc gacatgggtca 240  
 tggccaccgt aaagaaggga aagcccagcc tcaggaagaa tgtgatgccc gacgtcatcg 300  
 ttccgccagcg caagccgtgg cgtcgcaagg acggtgtcta catgtacttc gaagataatg 360  
 ctggagtgat tgtgaatccc aatggtgaga tgaaaggttc tgcaatcact ggacctatcg 420  
 gcatggagtg tgct 434

<210> 36572  
 <211> 425  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-C1

<400> 36572

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 ttggtgggtgg gcggcagcgg ctacctgggc cagcaccttc tcgcggcgtc ctgcaccgtc 180  
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 acgtccccc cgtgcgcgc attccgcgcc gaccttcgct ccggcgacgg ctccgaggcg 300  
 atctccgcgt cttttggcca gccacacgtg gttgtcaact gtgctcgat gtcagtttct 360  
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aattg

425

<210> 36573  
<211> 430  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-045-Q1-K1-C10  
  
<400> 36573

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cgccggcgga ggggaggagc tctccgtgga ggagcgcaac ctgctgtccg tcgcctacaa 300  
gaacgtcatc ggcgcccga gggcctcgtg gcggatcatc tcctncatcg agcagaagga 360  
ggagggccgc gggaacgagg cgcacgccgn cttcattcgc gcctaccgct ccaagatcga 420  
gaccgagctc 430

<210> 36574  
<211> 424  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-045-Q1-K1-A7  
  
<400> 36574

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gcaagccgct ggcctactac gcgctgcgcg aggaggtcca gaagcagctg cagaagcacc 240  
cgaacgcaa cgtcgtggtc accggccaca gcctcggcgc cgcgctggcg accatcttcc 300  
cggcgtgct ggcgttccac ggngagcggg gcgtcctgga ccggtgctc tccgtgggtca 360  
cctaaggga gccgcgcgtg ggcgacaagg tgttcgcggg ctacgtgcgc gccaacgtgc 420

ccgt

424

<210> 36575  
<211> 341  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-044-Q1-K1-H11  
  
<400> 36575

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gatccagtac tccgagaagt acttcgacga cacctacgag tacaggcacg tcgtcctccc 180  
gccagaggtc gccaaagctc tcccaagaa ccggctcttc ttcgagaacg agtggcgcg 240  
gatcggagtg cagcagagcc gcgggtgggt gcactacgag atccaccgnc cggagccgca 300  
catcatgctg ttccgncgnc cgatcaacta ccagcagcag c 341

<210> 36576  
<211> 384  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-044-Q1-K1-H12  
  
<400> 36576

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ccggctgctg ttccagccgt ccttagatag accctgcttt cctcccgggc aaatccaagt 180  
tgcccaaagt ccgacaccag tgaagtcggt gctgccgta gtgctcctcg gctcgggcg 240  
cgtcgggcgc tacctactcc ggcacatcgt ctctgcccgt accctccacg ccaaccagg 300  
cgtggccatg cgggtggtgg gcgtcgccga tagctcctnc ctgctcgctg tcgaagatgt 360  
ccactccacc ggcctagatg acgc 384

<210> 36577  
<211> 378

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-044-Q1-K1-H2  
  
 <400> 36577  
  
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 tgtcgagaag gccaggcgca agctccgagc cctcatcgcc gagaagagct gcgccccgct 180  
 catgctccgt ctgcgctggc actccgcggg gacgttcgac gtgtcgtcga ggaccggcgg 240  
 tccattcggc acgatgaagc atcagtcgga attggctcac ggcgctaacg cggggctgga 300  
 catcgcggtg cggctgctcg agcccatcaa ggaggagttc ccaatcctgt cttacgccga 360  
 tttctaccag ctgcgagg 378

<210> 36578  
 <211> 442  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-044-Q1-K1-H3  
  
 <400> 36578  
  
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 ggtgactgac ggcatgagga agaggaagag ctgcggatat gaaggtgcag cagctgtgaa 180  
 gtttgtgaag tacaaggttg aagatagctc gctgaaggac tacctgtcag cagctaattg 240  
 cataagcagt ggaagtgagg tagagaaccc gcagtctgat gatgagatgg aagaatcaaa 300  
 ctgatgcata gaaacgagat caccgcgtaa tgcttacttt ggacagttgc ttttgagagt 360  
 tcottggaca gccgcctttt tttggagcca ggaccagtct tgtttcagct gccgcttggt 420  
 tatgatgccg tgcagaatct gc 442

<210> 36579  
 <211> 381  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-044-Q1-K1-H4



<400> 36579

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cacagagtgc ggcgcgggcg tcttcatggc caaccacttc gaccgccact actgcggcaa 180  
gtgcggtctc acctatgtct acaaccagaa ggcgtaattg cttgccccga tttgctttat 240  
ccgcctaccc tatcgaacat ccagctgtcg gttactcgaa ttgtatctca tgtagatctg 300  
tctgagggtg aaacttaaat ggagcagtag tatctgtcat attggtaccc ctgttactga 360  
attgatgtga tgctgagttt a 381

<210> 36580

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-H5

<400> 36580

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tttctctctgc cgaccacatc tacaccgcac caccggtcct tccaagttag cttcaacccc 120  
ctgcgtgtag atggagaggg ttctcaagga tgacgccgtc gaggagaagg gcgagcgcg 180  
cagaatggca tcgtttgttg gggccatgtc aatctcggat ttggcgaaga ccacattggg 240  
tccaaaagga atggacaaga tcctgcaatc aactggtaga gggcgtaatg ttactgttac 300  
aatgatggg gctaccattt tgaagtcact tcacattgac aatcctgctg caaaggctct 360  
tgttgacatc tcaaaagttc aagatgatga agttgggtgat gggacaactt ctgttggtgt 420  
tctagctgga gaacttt 437

<210> 36581

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-H6

<400> 36581

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cgactactgt aagaatcctg gaaaaccatc agaagaattt gctgcgtaca ttaagcagag 120  
aggctatgac cttcacgacg tgaaggctta tggacagatg ctgaaggatg ctggttttca 180  
taatgtcatc gcggaagatc gcactgagca gttcttgaat gttctacaga gggagctagg 240  
tgaagttgaa aagaacaaag acgctttcct ggcagacttc acccaggagg actatgacga 300  
cattgtgaat ggctggaacg cgaagctgaa acggagctct 340

<210> 36582  
<211> 325  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-H7

<400> 36582

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taaagcattc gataaaaagc ctcttccagc gtcaccggcg gcttggatta ggatccagga 120  
tcagaagatt tctgtaccgg cttaattggt aatgtatattt tgggtgtgtgc aacatctccc 180  
accagatggg gttaacactt gtagtgtgtg atgctaaaaa aaaaaaaaaa aaaaaaaaaa 240  
aaaaaaaaaa aaagaacaaa aacacaaaaa aaacaaaaat aaacccaaaa agactatgac 300  
aacattgaaa aatggataga acaag 325

<210> 36583  
<211> 424  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-H9

<400> 36583

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catactttgt aagaataata agcaagcaga tggttggagt gtacctatca atatgggtac 120  
gaagaagcct ccgaaagcac attcagagtc tgaaagtatc aactgtaggg gttggtgcta 180  
tggtgtacat tggttaataag ggatcaatat cagtaagcat gtccatatac caaacacact 240  
tttgctttat atgttgtcac ctaacctctg gagaaaagga aggagatgaa ctaaaaagga 300  
atgctgatgt tcaagaaatc caccgaagga caatatttaa tccagtttcg agagtcaaca 360

tgcctaaaac gatatatgac catgaaagga ttgtatggct aggtgatctc aactatagga 420  
tcaa 424

<210> 36584  
<211> 412  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-045-Q1-K1-A1  
  
<400> 36584

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ctccgctacc ttcttgatcc tcctcagaag agccagatga aaggatgttg cgcagcgacc 120  
ttccggagat ggaaagcgag ttcagctgcg actccaccct tcgcatgaac tccatcgctt 180  
cctgcagctt gccaacggtg gcggcctcct cgacgcatgc gtcaaggcga aggagccctc 240  
gtcgtcgtct ccctacgcag gcgacgtcga ggccatcaag gccaaagatca tctcgcaccc 300  
acactactac tcgctgctca ctgcctacct cgagtgcgaac aagggtggcg caccaccgga 360  
agtgtctgcg aggtgacgg acatagcgca agaagtggaa gcgcggcagc gc 412

<210> 36585  
<211> 300  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-045-Q1-K1-A10  
  
<400> 36585

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tcaccacca caacacgggc aggacacaat acccggggcg acgcccacac gaccaacaaa 120  
ccggcacaca caccgcagat ccaaacacat accctaccac acagacaaaa ccgcgggata 180  
gaagatgacc cccgcccggc acaaccacaa ccccccaaca agacacaccg cgggaccaca 240  
gcagcaacgt gctacaacaa caacaccaac aaccgcgctg aacggcaaca acacaaagac 300

<210> 36586  
<211> 262  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-A11

<400> 36586

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gagaaaaaaa aaaaaaagaa agacacaaaa aaaaaaaaaa aaaaaaaaaa aagaaaaaaa 120  
aaaaaaaaaga aaacacaaaa aaaaaaaaaag gagaccaaaa aaaaggcgaa cgaatggact 180  
gaacaaaaaa gccaacccagc aacgccatcc tctgccacgc cgaaaacggt atgatcggcg 240  
actatacccg gggccgacta ta 262

<210> 36587

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-A12

<400> 36587

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acaagcgaga agactcttaa ggaagttgta gtgccaatta caggacctct tatccgcatac 120  
cttggtgatac ggtttccatg gcaagttaag tcagcaatcc tatcaaccct gacaatcatc 180  
atcatgaaag gtggaattgc acttaagccc ttccttcac aacttcaaac tacattcgtg 240  
aaatgtctac aggataacaa taagtctgtc cggacgaggg ctgcagctgc tctcggaag 300  
cttagtgctc ttagcacacg ggtggatcct ttagttagcg atcttctgtc catgttgcag 360  
tcaagagatg aatctgtaaa agaaagtgtg ctttctgcac tcaaaggtgt tatcaaacat 420  
gctggcaaaa gtgt 434

<210> 36588

<211> 371

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-045-Q1-K1-A2

<400> 36588

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caccagtcgc ttgtagtgga agtacctgag tcggtgagca tttctgatac aaacgacatt 120  
 agtggggaac ctgaacacag tagaactgac attgatgagg acccaagtga acttactcca 180  
 agaacctaca atattaaaag aatcgaggat tggatcaatc agattgatat caatgatatc 240  
 gctttggatg ggcaaggaga gaattcagtt tctgcttttag ccaaactctcg tgaaccgatg 300  
 gctggcggttc ctgctgtgcg gncatgatgct aaaagcccgc ttggtatgga gatagcttac 360  
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<210> 36589

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-A3

<400> 36589

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 aaaaaaggaa caaaagtaaa caaagaagaa cagacaaaaa taaaagaccc aagagagact 180  
 aactaaaata aaatacaata gtaaaaagaa taaaaaatag gatcactgga aaaagatatc 240  
 aatgaacata acataagatg ggtaaagaaa gaatacactt tg 282

<210> 36590

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-045-Q1-K1-A4

<400> 36590

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 tcctacactt gctgttggtt cttacagacg tgggcagtgt gatgatgaac ttattaatgt 180  
 cactaacaaa aactcattat tcaagctaca agctagatat gtggttgaga gaatggatgg 240  
 tgatctgtgg gataaagttc ttcagcctga gaatgaatat agaaggcaac tcattgacca 300  
 agtggtttcg actgcgttgc ctgagagcaa gagccctgag caagtgtctg ctgctgntaa 360

ggctttcatg actgctgacc tgcctcatga actgattgag cttcttgaaa aga 413

<210> 36591  
<211> 256  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-A6

<400> 36591

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gcccgtggta cggccccgac cgcgtgctct acctggggccc gctgtccggc gcgccccga 120  
gctacctgac gggcgagttc ccgggcgact accgatggga caacgcggag ctgtcggccg 180  
acccagagac gttcggcaag aaccaggagc tggagggtcat ccactaccgc tggggcatgc 240  
tgggcgcggtt gggctg 256

<210> 36592  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-F6

<400> 36592

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tttctacaaa ctttgtcaaa gctagagaag tttgacctat gacattgcta aagtgatcta 180  
taatttgga tggaggatgt ctttagtttg atctttatct tatgcttgaa taaaatcatg 240  
gctagactct tgtagttagt aattcattat attgttctct tatttcaggt ttgttctttc 300  
tgcagatcga acctatccgc aacttattcg ctgctctttt ccttgccagc attgggatgc 360  
taattaatgt ccatttcttg tggaaccatg tggatatact ccttgcagcg gtaatttttg 420  
tgatcacctg 430

<210> 36593  
<211> 437  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-044-Q1-K1-F7

<400> 36593

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atatctcttc catctgataa acaaataaaa agaaatcggc atcgttcgct gctattatct 180  
gagtccgatg atgatccagc tgatgtaggt actgaaaaac ataacatatt tactgttact 240  
gaagttggtt tcttcccaca accttcagag gtgcctccta tgcatgggca agggatttct 300  
gatcagttcc attttcccgt tgaatcacga gagacatgtg aaattgctga ttctttccaa 360  
aatccacctg anagcaacat gtatgggtcc atttcacaag tttgtgatac atttatgtca 420  
caggacgtgt catgtgt 437

<210> 36594  
<211> 317  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-044-Q1-K1-F8

<400> 36594

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actgcagagg gccaaagggt gaaggttgaa tcctcagcag ttccttcagc cccaactcca 120  
gatgttgctg aagcacaggc cccagctgct gaggaggagg acgatgatga tgttgacctt 180  
tttggtgagg agaccgaaga tgagaagaag gctgctgaag agcgtgctgc agctgccaag 240  
gcttctggca agaagaaaga atctgggaag tcatcagttt tacttgatgt gaagccatgg 300  
gacgatgaga ctgacat 317

<210> 36595  
<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-F9

<400> 36595

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atcatcgtgc agcaggaggt gagcagggcg gtggcggcca acccgggcct cgccgccggc 180  
ctgctccgcc tccacttcca cgactgtttc gttgggggct gcgacgcgtc cgtgctcatc 240  
gactccacca agggcaacac cgcggaagaag gacgccgggc ccaacctcag cctgcggggc 300  
ttcgaggtcg tcgatcgcat caaggcgcgc gtcgagcagg cctgcttcgg cgtcgtctcc 360  
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ttagtgtcag tggacg 436

<210> 36596  
<211> 401  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-044-Q1-K1-G1  
<400> 36596

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gaggaagagg gcgaaatggt gaagcacaac aacgtcatcc ccaacgggca cttcaagaag 120  
cactggcaga actatgtcaa gacatggttc aaccagcccc cccgcaagca gaggcgccgc 180  
atcgctcgctc aaaagaaggc tgtgaagata ttcccccgcc cgactgctgg tcctctacgc 240  
cccattgttc aatgccagac tttaaagtac aacatgaagt caagggctgg gagaggcttt 300  
acccttgagg agctgaaggc tgctggcatc ccaaagaagc ttgctccaac cattgggtatt 360  
tctgttgatc accgncgcaa gaacaaatcc cttgagggaac t 401

<210> 36597  
<211> 257  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-044-Q1-K1-G10  
<400> 36597

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agcatcaatc aatccacgta cgtacaccct ctccgatccg aaagacaatg aagttgcata 180  
gcatagccgc tgagcttagt tgctggggac gaagttggag gcgtatgccc atgcgatgtc 240  
gttgactggg tcagcga 257

<210> 36598  
<211> 324  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-044-Q1-K1-G11  
<400> 36598

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ggcgttgatg aggtcctgtg acaagcgatt ggagttcata taggtgtgga ggctcctgct 120  
cagcgacctg cactgctacc tgtcgttgga ccacaagggtg cgcgagtaca acatgttcac 180  
cgcgcacaca cagctcatgg tcatcacgat ctgcaccgac acggccgacg ttacactaca 240  
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gcctcgaact atcaggattg cgct 324

<210> 36599  
<211> 433  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-044-Q1-K1-G12  
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ggttaagttg ctttttcgat tctcagaaaa agactggctc tgcactcgga taattttaaa 120  
atggatagtg cacagcagcc cactggggaa ttgaacaatt cgttcgatac tcttatgggt 180  
tctggagggtg accagagtcg acagcctcag gatgctggca atgaaacgag cttcacgaat 240  
tggaaagacc tcccatgga gctgctcctg cgtatcattt cactagttgg agatgacagg 300  
atagtcattg tggcctccgg tgtatgcaca ggatggcgtg acaccttggg gtgggggggtt 360  
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cacaagttca cga

433

<210> 36600

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-G2

<400> 36600

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aggaggtggg ctaaatggtg aagcgcaaca acgtcatccc caacgggcac ttcaagaagc 120

actggcagaa ctatgtcaag acatggttca accagcccg cgcgaagcag aggcgcccga 180

tcgctcgtca aaagaaggct gtgaagatat tcgcccgcgc gactgctggt cctctacgcc 240

ccattgatca atgccagact ttaaagtaca acatgaagtc aagggtggg agaggcttta 300

cccttgagga gctgaaggct gctggcatcc caaagaagct tgctccaacc attggtatat 360

ctgttgatca ccgccgcaag aacaaattcc ttgagggact g 401

<210> 36601

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-G3

<400> 36601

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cgagctccga tcgctcaagg ccaagttcgt gtctctgaag agagattccg gccatgtcac 180

cactaagaat ctcccggcga tgatgaagaa gctgaggggg ctcaatgagg tggctctctgt 240

ggaggagatc gcggccttcc tgtccgagtc gtaccccgac agcgatcagg agattgaatt 300

cgaatccttc ctccgggagt atctgaatc 329

<210> 36602

<211> 195

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-G4

<400> 36602

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ctggaacagt agatagtctg agagtggcca tccaggaggc agaagccaat cccgaccatg 120  
ttggagacac tgagcggagc acaccgagtc ctgctgacta acggtctcga cttcgatgac 180  
accgcgctca cgctc 195

<210> 36603

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-G5

<400> 36603

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cagttcatcc gtgaatacac tagcaagggtg gatgatttag tgaaggacag aattgagtca 120  
cagaatgaag aaagagtcaa agagaaggag gagaaagatc ttgttgctca gcagaacatg 180  
tatgcgcaat tgcttctctt tgctttgcct gctccgccaa tgcttggcat ggggtggcct 240  
ccacctccga tgggtgggat gggcatgcct ccaatgggtg gaatgggtat gccgccgatg 300  
ggccctggtc cgatgccagc attcgggatg ccagcaatgg gaagctactg agatgttttt 360  
gcagagagct tagacgatga tttgaatcgt ccctgtgtaa gcgaagggtg aaacttcatt 420  
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<210> 36604

<211> 285

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-044-Q1-K1-G6

<400> 36604

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caagagaacc aaaggaaaca gagcaagagc atcgctctcg aagcaaaacg cgcaccacgc 120

cgtcgccggc cggccacttc gcacgtacgt aggacgcgca cgcaccggtg catatatggg 180  
gctcctgaac cagctgtggg acgacacggt ggccggggccg cgcccggaact ccggcctcgg 240  
caagctccgc aagtacgcct ncttcttccc ctcgctcgtcg tcgtc 285

<210> 36605  
<211> 410  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-G7

<400> 36605

gttgacaaag atatgagcca tccacaaatt ccaaagagaa ttgaggatgc taagattgcc 60  
atcttgacat gccatttga gcctccgaag ccaaagacaa agcataaggt tgacattgac 120  
actgtcgaga aattccagac actgcgtgag caagagcaga aatactttga tgaaatgggt 180  
cagaagtgcaggatgctgg tgcaaccctg gttatttgcc agtgggggttt tgatgatgaa 240  
gccaatcatt tattgatgca cagaaatctg ccagcagtta gatgggttgg tgggtgttgaa 300  
ttggaattga ttgccattgc tacaggaggg cggattgttc cgagattcca agagttgagt 360  
cctgaaaagc ttggaaaggc tggattagtc agagagaaat cattcggaac 410

<210> 36606  
<211> 440  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-G9

<400> 36606

cccacgcgtc cgggcatccg cagagagctt gttccgtcca ggcaaccaa aagcaagttg 60  
ccccgccgag cagaggaaga agagagcaga ggaggatggc tcgtacgaag cagaccgccc 120  
gcaagtccac gggaggcaag gcccccgca agcagctcgc caccaaggctc cgtccgtctg 180  
cccttctcta cccgtttcgg atccgctgtt ctgttctcta gggttccctt ctgagacgcg 240  
ccggcggttg tgctgtggtt gcaggcggcg aggaagtcgg cgccgacgac cggcggcgtg 300  
aagaagcccc acaggtacag gcccggaacc gtggcgctgc gcgagatccg caagtaccag 360  
aagagcacgg agctgctgat ccgcaagctg cccttccagc gcctggtgcg cgagatcgcg 420

caggacttca agacagacct

440

<210> 36607  
<211> 412  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-044-Q1-K1-H1

<400> 36607

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gtgacggtga cgccgctcca ggtgctgcag ggctacgtga aggacacgag cttcgtcgcc 120  
ggctgcaact cggccgcctg caacgtcacg acgatccccg aggcgggtcca ggccggcgagc 180  
tcggcgggact ccgtcgtctt gttcatgggg ctggaccagg accaggagag ggaggagggtt 240  
gaccggctgg acctgacgct cccgggacag cagcagacct tcatcgagag cgtcgcgaac 300  
gcggcgaaga agccggtgat cctgggtgctg ctctgcggtg ggcccgtgga tgtgagcttt 360  
gcgaagacca accncaagat tggggccatc ctgtgggctg gctaccccg cg 412

<210> 36608  
<211> 295  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-F5

<400> 36608

cccacgcgtc cgtccattcg tgcgttcaat aaatccaaaa taaagcgtgc tcactggact 60  
gatcattatg atagtggacg gtgcaagaat gaacttgatg attaccatga tcttcagat 120  
atatctcttc catctgataa acaaatgaaa agaaatcggc atacgtcgct actattatct 180  
cactacgatg atgatccagc tgatgtatgt actgaaaaac atagcatata tactgatact 240  
gaacgctgtt tcttcccaca accttcagac gtgccaccta tacatgagcg acgga 295

<210> 36609  
<211> 371  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-044-Q1-K1-E1

<400> 36609

cccacgcgtc cgccacgcg tccggcacgt aactcgctt cgggccctga gataaaatct 60  
ccggcgctc gcttggtccg ccaaaatcca ctcttgga tttctgagc tgtcggaaaa 120  
tttctctttt tgttttggtt cttctttgac cccttaggtc gctagcattt gtgcgttccg 180  
ccgaagctcg ctggtttgat cgcctctagt tgcggaagcg cctcttgatt tggttctaaa 240  
atacatcggt ccttgttttc atccttccga aggggggaaa atcatctttt ttgggccctg 300  
atttgagtgt gtcacctttg cttccggcaa tggggaacag cagcagcagc aacaggcgtn 360  
cgccggggcc a 371

<210> 36610

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-E10

<400> 36610

cccacgcgtc cgccacgcg tccggccagt atggattgac tttccaagag aagggaacaa 60  
ctggagctat gataaatgca gacgacagtg gagccttgat gacactgatc aattggggta 120  
caagtacatg aatgcctttg accaaaccat gaatgcgctc gatgagagat tttccttcct 180  
ttcgtcgtca aagcagatcg tcagcgacat gaacgatgag gaaaagggtta ttggctttga 240  
acgtggagat ttagtttttg gtttcaattt ccattccaag aaaacttacg agggctacaa 300  
agtgggatgc gatttgctg ggaaatacag agtatccctg gactctgatg ctct 354

<210> 36611

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-E11

<400> 36611

cccacgcgtc cgggcgcaga gaatcccat gcaatcaaac agggtagagg gagaggagag 60  
gagaggagag gagaggttgg gtctgggaca ccatggctcc gatgaagctg tacggggcgg 120

tgatgtcgtg gaacgtgacg aggtgcgcaa cggcgctgga ggaggctggc tccgactacg 180  
 agatcgtgcc catcaacttc gccaccgccg agcacaagag ccccgagcac ctcgcccgca 240  
 acccgtttgg tcaggttcca gctctgcagg atgggtgactt gtacctcttc gaatcacgag 300  
 caatctgcaa gtacgtgctt cgcaaaaaca agccagagct gttgagggaa ggaaacctcg 360  
 aggaggcagc aatggtggat gtttggatcg aggtggatgc taaccagtac accgctgcac 420  
 tgaa 424

<210> 36612  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-E12

<400> 36612

cccacgcgtc cgcccacgcg tccgcaggct taacatccat acaactgggg ttacgaacct 60  
 cgaacaactt gattcgtaga ccacacaact atggggacac aaatcatccc cacttaattt 120  
 tggacctgta caactagggg acacacctga cacgtcctgt ccaaagacca aaggctgtta 180  
 atccaatctc ttggcaccac aactcaccta gaagagcatc actgataatg acttacaact 240  
 atctctacaa aaaaaaaca gccaaagcatg cctggacaac catgctagtc caaaatccaa 300  
 atgtcagggc aactactcaa agctgcctgt acaaaaccaa aaactaataa ggaaaaagag 360  
 tggcatcaaa ctagatggaa agtgccaagc tacagagctg gaatagccta gtgaaacctt 420  
 caagaaggta atga 434

<210> 36613  
 <211> 435  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-044-Q1-K1-E2

<400> 36613

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 caccaaagct ccgatggccc gactaaaca gacggcgcgc aagtcgacgg gcggcaaggc 120  
 gccccgcaag cagctggcga ccaaggcggc gcgcaagtct gcgccggcca ccggcggcgt 180

gaagaagccc caccgcttcc gccccggcac cgctcgctc cgggagatcc gcaagtacca 240  
gaagagcacg gagctgctca tccgcaagtt gcccttcag cgcctcgtcc gtgagatcgc 300  
gcaggacttc aagaccgatc tccgcttcca gtccctcgcc gtcgccgcgc tgcaggaggc 360  
cgccgaggcc tacctcgtgg ggctctntga ggacactaac ctctgcgcca tncacgccaa 420  
gcgcgtcacc atcat 435

<210> 36614  
<211> 335  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-E3

<400> 36614  
tgtagttttg ctggtgtagt gagtgtttat tactcatgca ccaacatctt cgtggcttat 60  
gttgtcacgt tcaggctcgc ttggctttat taagcttttt tcacttgaaa agattgatta 120  
cgaaacaaac atgtgattta ttgttaaaaa aagtaaatac atctatcgca atagttaatg 180  
gaggtcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa aaaagataaa aaagtacaaa 240  
aaaaaataaa aaaataataa tacaaaagta aaccttaaaa aagaatatat cgtaagatca 300  
aacaagaata aaaaaaaggg gctgcccttt taaag 335

<210> 36615  
<211> 461  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-E4

<400> 36615  
aaaatatccc caaaccttag ctcccgatth cgattgcgaa ccctcgcgtc ttcttcgaca 60  
tgaccgtcgg cggcgccccg gcgggcccga tcgtgatgga gctgtacgcc aacgagggtgc 120  
ccaagaccgc ggagaacttc cgcgcgctgt gcacggggca gaaggcgctg ggcaagtccg 180  
ggaagccgct cactacaag ggctccacct tccaccgct catccccgag ttcattgtgcc 240  
agggcgggca cttcaccgc ggcaacggca cggcgggcga gtccatctac ggcgagaagt 300  
tccccgacga gaagttcgtg cgcaagcaca ccgtccccgg tgtgctctcc atggccaacg 360



ccgggccc aa caccaacggc ttccagttct tcatctgcac cgtcgcgacc ccttggtctcg 420  
acggcaagca cgtcgtcttc ggccaggctc tgcagggcat g 461

<210> 36616  
<211> 413  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-E5

<400> 36616

cccacgcgtc cgtggacgcg tgggttgact cgtgggcgct gggccaccag ctttgaccgc 60  
cgccttcctt ccctgcgt actgctctc ctcacccac tccccgcag gagcggcggc 120  
ggcggcggcg aggtcgtacc ccacatcggc gagcggcggc ggcaccgccg gaggcaaagg 180  
caagatgttc gggcgcgcgc cgaagaagag tgacaacacc aagtactacg agatcctcgg 240  
ggtgccc aag tgcgcgtccc aggacgatct caagaaggcc taccgcaagg ctgctatcaa 300  
gaaccacccc gacaagggcg gtgaccccgga gaagttcaag gagctcgcac aagcctatga 360  
ggttttgagt gatccagaga aacgtgagat ttatgatcag tatggtgaag atg 413

<210> 36617  
<211> 458  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-044-Q1-K1-E6

<400> 36617

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cccgttcctc tccggcggcg tcaccgtgcc cgacgccacc gtctccaccg ccaggcgtt 120  
cttcaccgag ttcacatct cttcaacct cctcttcgtc gtcaccgccg tcgccaccga 180  
caccgcgca gtgggtgaac tcgccgggat cgcggtggga gcgccgtaa cgctgaacat 240  
cctcgtcgcc gggccgacga cgggcgggtc catgaaccgc gtgaggacgc tggggccggc 300  
cgtggcggcg gngaactacc ggcagctctg gatctacctg ctggccccga cgctgggcgc 360  
gttggcgggg gccagcgtgt acacggcggg gaagctcagg gacgagaacg gtgagacgcc 420

gcgcacgcag cgcagctttc gccgctgacg acgcacac 458

<210> 36618  
<211> 292  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-E7

<400> 36618

aagaggtaca accccaagaa gctgacatat gagcagagga aggccagcct cattgaaagg 60  
ctcaaccaac tcaactcctc cgggtggtgct gatgacgacg atgaggacga cgagtaaagt 120  
taattgccat cgaagtagtg ctatctcaat ccagcgatca gcaattgtgt actgtcttat 180  
gcggggacct gtagtactgc aataggcatt tttgttttaa agttttgcga ggtgaacaaa 240  
actgtttctg ttagtttcga gcttgagctc tcaatgttta ctctttacat tg 292

<210> 36619  
<211> 237  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-E8

<400> 36619

gtccaatgca cgagcacatg gatggtctgt ttgcatggtc tagttttttt ttgtgaacag 60  
acaaatgaac tcacatgtac gcctccatac tgcagcagca gcagccgccg ccgccgtctc 120  
ggagctcgag ctctagtgcc cccggggccc aggcggcggc gccatggacc agctccggcc 180  
cgagccggcc gcgggcgcgc ggcacgagat cgagaagacg gcggcgccgg acgtgga 237

<210> 36620  
<211> 106  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-E9

<400> 36620

cccacgcgta cgcgcgctca gaagccgcat ccaatccaac agggcgccagg gagagaagag 60  
gccaggtcag aagagagggg gccgggcaca ccaacgcggc gcagaa 106

<210> 36621  
 <211> 434  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-044-Q1-K1-F10  
  
 <400> 36621  
  
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 cccaccacc acgcccattg cggaccaact caccgacgac cagatcgccg agttcaagga 120  
 ggccttcagc ctcttcgaca aggacgggga tggttgcac acgaccaagg agctgggaac 180  
 tgtcatgcgt tctctggggc aaaaccctac agaggctgag ctccaggaca tgatcaatga 240  
 ggtcgatgcc gacggcaacg gcaccatcga ttttccagag tttctcaacc ttatggctcg 300  
 caagatgaag gacaccgact ctgaggaaga gctcaaggag gcctttcgtg tgtttgacaa 360  
 ggaccagaac ggcttcatct ctgccgccga gtcgcccat gtcatgacaa atcttgggga 420  
 gaagctaact gatg 434

<210> 36622  
 <211> 220  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-044-Q1-K1-F11  
  
 <400> 36622  
  
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 gcggctgccg cagctgccgc tgattcgttc attcttcttg ttcttttgta actgtgcgcg 180  
 cgcgatcgct cgatccaaag ttgcttgtcc gtcagccctc 220

<210> 36623  
 <211> 363  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-044-Q1-K1-F12  
  
 <400> 36623

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 ccttagtttc tatcttctcc cttctccaag tgctcgtccc cttgtgccc cctcatgtgg 180  
 gtggcttttg ttcccaccca gttctatgac tcattcgtgc cccaagggc gaaggacgaa 240  
 ttgtgccagt ccacttgtgt gcacagagcc ctgtggccc agggagaccc acggatggct 300  
 ggtcatactt nntagtcaga cctgcnnatt tccatgaaac tgctttgtca aagggttgc 360  
 gat 363

<210> 36624  
 <211> 392  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-044-Q1-K1-F3  
 <400> 36624

aaaaaaaaa aaaaaataa aatcaaaatt tatataataa aaaaaaaaa aaaagcaaag 60  
 tggacgtgat cataatgata taagacacta gaaagaatga actagatgat attacatgat 120  
 cttacaaata tatctcttcc aatctgatta acgcataaat agaaatgggc catcgttctgc 180  
 tgctattatc tgagtccgat gatgatccag ctgatgtagg cactgaaaaa cataacatat 240  
 ttactgttac tgaagatggc tctttaacac aaccggcata agtgcctcct atgcatgggc 300  
 aaaggatttc tgatcagttc cattgtccc ttgaatcacg agagacatgt gaaactgctg 360  
 aatctttccg aaatccacct gaaagcaaca tg 392

<210> 36625  
 <211> 409  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-044-Q1-K1-D9  
 <400> 36625

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ggcgcgaaac gccaccgtaa ggttctccgc gacaacatcc agggatatcac gaagccggca 180  
atccggaggc tggcgaggag gggcggcgtg aagcgtatct ccgggcttat ctacgaggaa 240  
acccgcggcg tgctcaagat cttcctcgag aatgtcatcc gcgacgcggt cacctacacc 300  
gagcacgctc gccgcaagac cgtcaccgcc atggatgttg tgtacgccct caagcgccag 360  
ggcgcgactc tgtacgggtt cggtggttga gcgcatctct tncctcgtc 409

<210> 36626  
<211> 442  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-044-Q1-K1-F4

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cacaatggaa ggggttccag aaaatagggg tgtaaattat agggctttgg aagaattggt 180  
cagaatctca gagaaaagaa gtgcatctgt tgcatacaca ttttccgtaa gcatcttggg 240  
agtttacaat gaaaagatca gggatcttct tgatgagagc aatgatcaat caaaaagggt 300  
ggatattaag caaaatgctg atggaacaca agaagttcat ggtttggttg aggctccaat 360  
ttataacata gatggtgtgt gggagaaaact gaagtttggc gctcaaaata gatccgntgg 420  
ctcaaccatt gctaatgaac tc 442

<210> 36627  
<211> 389  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-C4

<400> 36627  
gaactgcatc catctattcc aggagcatgt catattgagc ctcattgcacc tgctctagag 60  
gagcttcaac gacaccaagt ggcacgtgta ccgactgtgc gttctgaaag ctagcctgaa 120  
cctagcgctc cagatcgaga tgatcaaact cgaggcgaag cacagaagta ctactatctt 180  
cggactacaa cggactgaag tccggagaaa ctacctgagc ctatgacagt ttccggagagc 240

tctgatgaca taactgaatg agtcgaatct actagagcac aaggaccgaa gtgctagttt 300  
aacagagtga ccaaactgtc aggacggact attcctgacg agttaaaga tgcacgggaa 360  
ttgccagaca aggtatcaga tcaacaacc 389

<210> 36628  
<211> 430  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-044-Q1-K1-C5  
<400> 36628

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tgagctccga ccaaactctg cagcggctgc aattccgagc ccgaagagcg gatcaggcga 120  
ggacgacgcc ttcgattctg atctgcggtc ggcgcgaccc agagagaacc ggagatgcag 180  
cagggcgacg gcacggaggc gcaggtgacg tgggaggacc agcagaacat caaccgcttc 240  
ggtcgcctca acaaccgcct ccacgagctc caggaagaga tcaagctcgc aaaggagacg 300  
aatgagaacc ttgatgatgc tgggaatgaa ctcatcttgt ccgatgaaga cgttgtagcg 360  
ttccaaattg gggaagtgtt tgctcacatg ccaagggatg acgtccagac taggctggag 420  
cagatgaaag 430

<210> 36629  
<211> 456  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-044-Q1-K1-C6  
<400> 36629

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ccatggtaag tacatggcct gctgcctcat gtaccgtggt gatgtgggtc ccaaggatgt 120  
gaatgctgct gtggccacca tcaagaccaa gcgcaccatc cagtttgtgg actggtgccc 180  
aactggcttt aagtgcggca ttaactacca gcctccaagt gtggtgcctg gtggtgacct 240  
ggccaaggtg cagcgcgctg tgtgcatgat ctccaactcc accagtgttg tggaggtgtt 300  
ctcccgcatc gaccacaagt tcgacctcat gtacgccaaag cgtgccttcg tgcactggta 360

tgtcggtgaa ggtatggaag aaggcgagtt ctctgaggcc cgtgaggatc ttgcagcgct 420  
cgaaaaagac tactaggaag gtggtgctta atttga 456

<210> 36630  
<211> 423  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-044-Q1-K1-C8

<400> 36630

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tagataagat cgagcaaact ttctcttgta tgtaatgttg tcatgggaaa aaaaaaagaa 180  
aatacagtgt aaaggcacac tggcagacaa gccatagata tgaataggta tgtgtgttgt 240  
tgaaggaatg tgctgtgatg cgcattgggg attggtgatg acaagcaggc cgttttgagt 300  
ctccatatca cctatgcaga atcagctgta gaaaaaaagg tagcaaattg tggaagtcga 360  
accaattgtt ttgcaaacat aaaanaagat gaatgtttgt tggcgagttc gttgcgagaa 420  
aaa 423

<210> 36631  
<211> 266  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-C9

<400> 36631

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gtttgatattt attgttatgg atttttatta atattttcga ggggactttc taaaagacac 120  
aaccgaaatt aagaatgaat gcgaacgcaa aaatattaaa aaagggaacc aaaatgcaaa 180  
taagatgacc gacgactaac aacatgggaa ctgggaaaac actagggata cccaactaaa 240  
aagggttgaa aaagaaaaac ttttag 266

<210> 36632

<211> 365  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-044-Q1-K1-D1

<400> 36632  
  
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 gcatcgatgg cgcccaaggc cgagaagaaa cccgcggcga agaagccggc ggaggaggag 120  
 cccgcggccg agaaggcgcc cgccgggaag aagccgaagg cggagaagcg ggtccccgct 180  
 ggcaagtccg ctgccaaagga aggcggcgag ggcaagaggg gcaagaagaa gggcaagaag 240  
 agcgtggaga cctacaagat ctacatcttc aagtgctga agcaggtgca cccggacatt 300  
 ggcatctnct ncaaggccat gtccatcatg aactccttca ttaacgatat cttcgagaag 360  
 ctgcg 365

<210> 36633  
 <211> 413  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-044-Q1-K1-D10

<400> 36633  
  
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 ctgggaagcc agatattatt gcagcctcat acaccgccct tccctactgc ttcctgagat 120  
 ttgagagctc gggcgccaga tctgaaacct cttgtgttgt gcctttggta gttcgggtgta 180  
 gcattgagct agtagagggtg ctgttccagt tccaggatga gcaaggagga tgtcctcaag 240  
 gtgcagacat tgatgctgag agtgaacata cactgtgacg ggtgcgagaa gaaggtcaag 300  
 aagacctnc acaagatcga cgggtgtctac cagagcagca tcgacgcgga acagggcaag 360  
 gtgacggtgt ccggtttgct ggatccggac accatcatca ggaagctcaa caa 413

<210> 36634  
 <211> 407  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3069-044-Q1-K1-D11

<400> 36634

cccacgcgtc cggtcgcgcc tccttgtgct ccgcttgcaa tggcgtccac cgccgtcaag 60  
ctcatcgaca tcgcagtcaa cttcacagat ggcatgttca agggcatcta ccacggcaag 120  
cagtgccacg tcgccgacat cccggccgta ctgcgcgcgc cgtgggctgc aggcgtcgac 180  
cgcatcattg tcaccggagg ctccctgaaa gagtccagag aggcattgca gatcgccgag 240  
accgacggga gactgttctg cactgtggga gtgcacccaa cgagatgcgg ggagttcgag 300  
gagagtggag accccgaggg tcattttcag gactgctgg ctctagcgaa ggaaggttta 360  
gataaaggca aggtcgttgc ttgtggtgaa tgtgggttgg attatga 407

<210> 36635

<211> 363

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-044-Q1-K1-D12

<400> 36635

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tcacttctcc gccctctcgt gctcgtgctc ctgategcct cctgcgcagc gcagcagtca 120  
ccgcgcggcg agccccgcc aacgccgaac gcgccaccgg ccaactcgcc gcccaggcg 180  
cctacagccg gaaaccggc gccggcgccc caggcgccgg cggcaggcaa cccggcacct 240  
gcgcccaccg gactccacc tacggccccg accactccga ccccgcccc gaccacacct 300  
nccccggctt ccacaacgcc gaccgcggcg ccgacaacta cacctacgac cccaccacg 360  
ccg 363

<210> 36636

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-D2

<400> 36636

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gggagtcctt ttcagaactt ctcacgagat agttggaagg tctgttgctc tatgcgtctc 120  
 caagaactgt cagctagctg agcttgaatt ggctgaccta aaatctgtcc atcctgtatt 180  
 tgaggatgac gtctatgaat acctgggggt tgaaaacgct gtaaacaagt tcatatccta 240  
 tggctctact gggtcagaac aagtgaaaaa gcagcttgag gattggcgca tccagctcgg 300  
 ggtgagctca taagggttgg catgggtccaa gaaataagct cgcaaattag tgcttgcat 360  
 ttttgaaggt gtatgttgac gtcgtgaact tttactgagc gtttgatcat acatgttcga 420  
 aactggaatg aatgatgtaa acatgttaga caccttga 458

<210> 36637  
 <211> 382  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-044-Q1-K1-D3  
 <400> 36637

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 gctggacatc agtagcaacc agatacgagt gcttccagac tcttttgggc atctctcaaa 120  
 gctacgtgtg tttcatgctg atgaaactcc actggaagta ccgccc aaag aagttgtaaa 180  
 gctaggggct caggagctgg ttaattatat gaagaatatg gttgctgcaa gggaagtgag 240  
 ccagaatcaa acagataaga ggagcttctg gacctggctc cgctcactgt ttggttgtta 300  
 caaaaagaat caaggattgg gaccagttcc agcctagctg aaccatatcg tccgcatgta 360  
 ttgtcatgaa ttattcaggt tt 382

<210> 36638  
 <211> 404  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-044-Q1-K1-D4  
 <400> 36638

cgcagctgga acagcttagt ggatggcatt agatatactt cgaaatgaac catcagatga 60  
 gaaatgtgac gtcttcagct atgggggtcat attatgggag ctctgtacat tgctgcagcc 120

atgggaaggt atgaatccca tgcaggttgt tggagctgtt ggttttcagc aacgacggct 180  
 tgatattcct ggtggtgtgg atcctgctgt agcagagata ataaggagat gctggcagac 240  
 tgatccaagg atgcggccat cattttcaga gatcatggct actttgagac cattgttaaa 300  
 aaacatgcct gccaaccaac ctaccaggaa gcgggcacag canacagatg attaagaata 360  
 tattggtcag tatcagctga agacacaggc catagagaga ctgc 404

<210> 36639  
 <211> 367  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-044-Q1-K1-D5

<400> 36639

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 ctcaaattggg agtccaagca gtgaggggtca aggatccttg ttggatcagt acaatgggtgt 120  
 acatgatgct tcccatgggt tgcacgcgaa gcgaaaaaag caccttgatg gtgccggcga 180  
 tgatgatcat gcagatgcct atagtaacaa aatgatggag gatcactacc gtgcgatgct 240  
 cagtgaacat gtccagaagt accgaaggct aaagttaaag gaagggtgctt ttatttccga 300  
 tcctttctcag gtggcaatcc cccanattaa acacaaaaac ggtgggtaaa aagttatgaa 360  
 gcacatt 367

<210> 36640  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-D7

<400> 36640

cgctcggatc ctttcttctt ccatttcaact ccaccgtcgc ctccgcctgc aaatccattg 60  
 ctagactcga gctgtagctg cgagcgagct cagcttgggg ctcaggcctg taggggtgata 120  
 gccttactgc tcttgggtgt catcgccatg gaccttggtc tgtctgttta gggctgtcgc 180  
 ggctgcagga gccgatgatc gtccgatgca gccgatgctg ctagcgtacg catatagtga 240  
 ggactgaacg gctcgtctggg caccgatctt gatgagtga tgctacagcg attgacgtag 300

acgcactatc catcatgcag ggcgccatgc ttcggaacct cactgacaag ctattctaga 360  
agaggaataa cgcccagctc gagattgagg ggattgttaa gcaacttgca atggctgaag 420  
aacattag 428

<210> 36641  
<211> 429  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-044-Q1-K1-D8

<400> 36641

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gcgactccgg cgagagcacg ggatcagatc cgccgtgatg gcgttgcgcc gcatattatc 120  
cacagcgggtg cgccgccgct cgggcatcgc cgcggcagca tacgggaacg cgcgcgaggg 180  
ctccacggac gtgcgcgcgg cgcccgcggt gctagccctc gactcgaccc cggtgcgcac 240  
tcccgggatg ccgtacgatc gcatcgacga atccgttaac gccaggctcc atcggttga 300  
gcacccagac ccgcgctttc tacgctatgc aagccccgtt ccgtcccacg ccgaccacac 360  
ggccatnctt gcagcgccgg agacctcggt caccacgcta gccaacggcc tgcgcgtggc 420  
cactgagtc 429

<210> 36642  
<211> 405  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-C3

<400> 36642

cccaaagttg tgcaccgtga catcaaattt agctttatct tgattgatga tgagttcgag 60  
tccaaagtat cagatttcgg tttagccaag cttcttgggc ctggaaagag tcatgtcacc 120  
actagagtta tgggtacctt tgggtatgtg gcaccagagt atgcaaatac tggactcttg 180  
aacgaaaaga gtgacattta cagctttgga gtcgttctcc ttgaagcaat taccggaagg 240  
gatcctgttg actatggacg cccaccaaac gaggtgaatc tagttgactg gctaaaaatg 300

atggttgcca gcaggcggtc agaagaagta gtggatccca ccatagagac acgaccttcg 360  
acgagagctc taaagcgtgc acttttgaca gctctgaggt gtgtg 405

<210> 36643  
<211> 309  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-B1

<400> 36643

acgtgagctg acgctgtcac tcgcatagt tgctagagag agagagagag agagagggcc 60  
cgagagccga ggacgagtgc agtctggctg gcgtgatgct gcttcggagc gcgtcctcgc 120  
cgctgctcaa ctgcggggcg gcgccggctg ccacggcgat cgtcgagcac ctggccgtgg 180  
ttacgccgat gttatcaccg gcagtggctg cgcctaggca agggccggctg ctgcgccgcg 240  
ccatgtacga cggggaccat atcgcgccga tcgtgcccga gaaggacgat tgacacggca 300  
tggcgccga 309

<210> 36644  
<211> 310  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-B10

<400> 36644

cccacgcgtc cgcccacgcg tcgggccaat cccttattgc gacctgcgtt ccgcaaaac 60  
cctacggcca tggacggcgg acgcagcggc gtagggcgag gaggagtga ggcaagtgtc 120  
atggtgggcg gaggagtga gccgatcagc ggcgctagag actgcagaca cttggagact 180  
cgcagataga cgctgaagct tgagcacaag ctgtactact gcaatctgaa cgataactcc 240  
aggcggaggt acctcaagat atgcgcatag actctctaca cgcgctctac aatcattgct 300  
ctcggcaact 310

<210> 36645  
<211> 395  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-B11

<400> 36645

ggaacagagg tgcactcgcc agttgttctt tcaaatgccca ctccatacaa aacattttgtg 60  
gacctagtag cttctagtgt tcttccggag gacttcctct gtgcaattaa ggcagcagat 120  
tacagctctg caacaacaaa gattaatgtg gctgtcgaca gactgccaca gttccagtgt 180  
tgcaacacca atcttgaagg tgggtccagag cacatgggca caatacacat tgggtccgaa 240  
agcatggagg aaattgacgt tgcatacagg gaagcagcag acggcatctc gtccaaaaga 300  
cctgttatag aaatgacaat tccttctgtt ttggataaga ccatctctcc gccagaaagc 360  
ctttgctgag cgatgcttct ctttgattga tgagt 395

<210> 36646

<211> 393

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-044-Q1-K1-B12

<400> 36646

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ctagcagggg agactgtcat gttagcttct ggcagtgccca ttggatatgg ttcagcattg 120  
actatgactg atacatcgaa caagattaag aagggaacaa aaggagatgt ttctgtactg 180  
aatcctactc ttatgatttc agttcctgca attttggatc gtatcagaga tgcagtattt 240  
aagaaagttg gtgagaaggg tggcctgaca aaaaagctgt ttgattnttc atataagcga 300  
aatattgcag caattgaagg gagttggttt ggatcttggg caccagagag gatgttatgg 360  
gatcacattt attataaacc aatacnnggca atg 393

<210> 36647

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-B2

<400> 36647

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agacagagag agagagagag ggcgagagcc aaagacaagc ggggggagggc aagcgagatg 120  
ctacatcgga gcgcgaccac accgacgcgc aacagcagggc gcacaccaga cagacgagaa 180  
aacagtcgag caccacaaag aagaaacgcc gcagaaaaca ccaacagagg cgacgccaag 240  
gcacggaccg ggacaggacc aagccaagcc caaaggagac caaaa 285

<210> 36648  
<211> 365  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-B3

<400> 36648

cccacgcgtc cggggacgac atggagaata tctttcatca caccttctac aacgagctcc 60  
gtgtggctcc cgaggaacac cccgtcctcc tctactgaggg gccctgaac ccaaaggcta 120  
accgtgagaa gatgaccag atcatgttcg agaccttcaa ccccccgct atgtacgtcg 180  
ccatccaggc cgtcctgtct ctgtatgcca gtggtcgtac cacaggtatc gtgctcgact 240  
cgggagatgg tgtcagccac actgtcccca tctacgaggg atacgccctc cccacgccca 300  
tccttcgtct cgacctggct ggccgcgacc tcaccgacta cctcatgaag atcctgactg 360  
aacgc 365

<210> 36649  
<211> 169  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-B4

<400> 36649

gtaacttgtt taaggataat aaggaccctt tgcttctttc cctttgactg aagtgcagcc 60  
cggcacaccg gttgcttgtt gaagaatgct tttttattat tattgtagtt aagagtccag 120  
acgtcgttat taccacttat cgtcgtattg gaaaaaatgt ctttttctt 169

<210> 36650  
<211> 418  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-044-Q1-K1-B5

<400> 36650

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aggaaggatg gcggtcataa caaccactga tgcctctggc agtccattgg ccatgagaga 120  
tttcgacggc ctagccgact ccatgactat gaggagcagc aaatcagaaa cccttcgaag 180  
tttgcaatcc tcctacgagc aagaatcccc tagtgtaagc cggcgccgcc gtgttcgctt 240  
tgaggtagca gaggaggatg gcatgggccg gcaagtgaag gaagaactca tggcgctggg 300  
ggaagcgaaa catgctgggg tggcatacat catgggccat tcttatatca aagctaggaa 360  
gagctcaagt ttctgaaga agttgctatt gatgtggcta ctctttanct cgaagact 418

<210> 36651  
<211> 371  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-B6

<400> 36651

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tgttcgcagt ggcaaggatga agactggatga tattattgcc gcatcatggt ttggcgctgg 120  
acttacctgg gggttcagcta ttgtcaaatg gggctaatta ttctacgtga gccataacaa 180  
catcaatgag atcttcatag gccttgggga cctacatcta tttggtcttc ccccccttca 240  
ccattttct gtgcaacatt tttctatgc atgtgtcggt cttacttgca catgaaaatc 300  
tagtgccatt ttaccgtatt tctttggctt catacacaac tgatagtaga ttggtggatg 360  
aacatgggtg a 371

<210> 36652  
<211> 384  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-044-Q1-K1-B7

<400> 36652



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atggagcaat acacaggtag cagtttgaca agctattaca caagctcaca tttctgggag 120  
caatacacag gtagcagttt cacaagctat cacacaagct cacatttctg ggagcaaaaa 180  
acaggtggcg tagtagcagt cgtgtgttca tcttcatttg cagcaacgac aagttcacgg 240  
cttggtgctt catcttcatt tccagctaca acaacgacaa gccacctgct ttggcgcgga 300  
ctagggttgt ggtcgcagcg ccgncgtcac ctgctttggc gcgngccgc gagcagcaag 360  
ggagaagacg cggagtttgg agag 384

<210> 36653  
<211> 446  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-044-Q1-K1-B8  
<400> 36653

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atgagggcaa gtaccccaca atgtcccctc tcaaggagat cgtcggcagc atacagtcac 120  
aggttgccaa gatcgaggat gacatgaagg ttcgagcatc agaataataat aatgtaagga 180  
gccagcttag tgcatcaac aggaagcaaa gtgggagctt agcggttcgt gatctttcca 240  
atctggtaaa accggaggat atgatcacct cggaacatct cgtgacactt cttgcaattg 300  
ttccaagta ctcccaaaaa gactggttgt caagctatga gaaaattgac acattcgtgg 360  
tacctaggtc ctctaaaaag ctctatgaag acaatgaata tgctctctac actgtaacac 420  
tgtttgctaa ggttggtgac aatttt 446

<210> 36654  
<211> 434  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-044-Q1-K1-B9  
<400> 36654

gccctgatca catcatcctg cttgtctctt tccaatctag ctccatctct ctttcatcta 60  
ctcttccatc gatcgatcca tcgtactgcy tgaggatggg gaggggaaag attgagatca 120

agaggatcga gaacaccacc agccgccagg tgaccttctg caagcgcagg aatgggctgc 180  
tgaagaaggc ctacgagctc tccatcctct gcgacgctga gatcgctttg atcgtcttct 240  
ctacccgagg cgcctatat gaatattcca gtaacagcgt aaggctcgacg atcgagaggt 300  
acaagaaagc ctctgccagc acttcaggaa cagctccagt gacagatgtc aactctcttc 360  
aatactttca gcaagaagcg ggcaactgc gccagcagat acaaaccttg cagaattcaa 420  
caggcacctg atgg 434

<210> 36655  
<211> 378  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-C1

<400> 36655  
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ctctctctgc tttagcgcaa ctcgcgctcc ggtgcgctc cactcatcgc gatcgcttgc 120  
tcgaccgatc gatagctcaa gcacgacgag aggagagcta cctatcgcag ttgcgcttct 180  
tccttcttgc tcaactctcag tctcttgcgc gctcgccagc tctttcccac ttgcatggat 240  
ccctccgggc ctggcccgtc gtcggtcgtg ggggcaggag gcggcgaggc accggccgtg 300  
gcgccgcagc ggccggcgca gctgagtagg tacgagtcgc agaagcggag ggactggaac 360  
acgttcctgc agtacctg 378

<210> 36656  
<211> 206  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-C10

<400> 36656  
ttcccgtcgc cacgcgtccg attaccgact taatgaacgc tgactcacct ctgtcctata 60  
ctggaaccag agcacggtta cgtggacacg gagcgcgaca aagacgatcg tgagcacct 120  
cggtgagacg ggtctcactg agatacttg gtcagaacgc gcaaaagtac acggggcgat 180  
ggttctgtcc actgacctca ccgaat 206

<210> 36657  
 <211> 371  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-044-Q1-K1-C11

<400> 36657

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 attgttaagt tgagattcac tcttcaacca cgccaaaggg ctgcatcacc tgtaaaagct 120  
 ccgccccctc ctccaaaaag agatgctctt cagattgaaa aagggtgtag cagtgc tga 180  
 aaggatgctc agcagcgtcc taaggaatca tctccacgaa ggaaaccagc ttcacctcta 240  
 cggaacgat ctccaaatcg aagggtgtaa tccccaggc gtccacctga cccatcacct 300  
 aggcgccgtc ctgattctcc gcctatacgt cgccgaccag atccttctnc tgtcangcgt 360  
 ggtgacacac c 371

<210> 36658  
 <211> 397  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-C12

<400> 36658

gttatagatc gcgagcggcc ggcccttctt tgttttatgg aatgtagcag cacatcagag 60  
 cgaagggagc taaatgatgt gattgcagtg ttcgccagca tggattgccc tgccacaatc 120  
 cataaggggc tgcaatacct actgagctac aactggaccc tgggtcttaga ggggattcat 180  
 tccttgcaaa gctagcgcaa ctagagaggt ctcccattac ttccgacgca ttacaccgtt 240  
 cgaggatggg gaagaagaag accatagcct aaacacgggt gatgaagacg acgaccacac 300  
 ctgtagcatt agctacaact gtgactccga tgcaacattc cagccatgcc atcaccggtc 360  
 ctgctatggc tgcataagca ggcatctcct gaacaac 397

<210> 36659  
 <211> 420  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-C2

<400> 36659

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gcgtgctggt gcctttggcg gcggcatttg gccggcacgc cgatgccggc aacgacatgt 180  
gcgacatcaa gtgccagcat cacatcgacc cggtcaggag gcatcagagc gtggatgagt 240  
gccataggcg tgagcaccat gaccctagca gagagttttg cgagatgaag agccagcacc 300  
accaggaccc tgcaaggaaa gagatctgcg tgcagcaacg catgagctat ggtctcgagc 360  
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<210> 36660

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-A9

<400> 36660

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cttcttaaac aagcctcttg gtgggggtcc tgccggaagg gtgaagcgga agaaccagaa 180  
gaaggcctca tggggcgggc acgctgagga ggacgaggag tagagggcca cgtagggatt 240  
ctgcgaccgc aattgggtga aatgtgaggt ggacacttt 279

<210> 36661

<211> 200

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-H2

<400> 36661

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ttcgtatctg ataaaaacct ttcgttaatc aatttaagga cttggcataa gatcctccaa 180  
tatcatgcat gacaagtact 200

<210> 36662  
<211> 431  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-H3

<400> 36662

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ccttctcatc gccaccaatg gccactgccg aggtccagac cccgaccgtc gtggcgggccg 180  
aggaagcgcc cgtggtggag accccgccgc cgcccgctgt gcccaggag tctgcccccg 240  
ccgaggccga ggccgaggcc gaggtctgtg ctctgtctga tcccaggag cttcccgcgg 300  
ccgagcagca ggtagccgcc gaggcggagg ccgcggctcc tgctgggtgcc gaggagcccc 360  
tcgcggggca accggccgcc taggcggaag ctgctgtctc tgctggcccc aggagactcc 420  
tgcggtcgag c 431

<210> 36663  
<211> 346  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-043-Q1-K1-H4

<400> 36663

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tggaagagca caatccttgg ctcttttact gttactgttg aatctgaggt accgagtgga 180  
ccaatttggc atacacttga cagcacatca cgccagggtg gtcttcatat taaagtaatc 240  
aaggttcatg aaagttactc cagggaata aatagctcag ctganctgg tgctcgtaga 300  
aggatttcct tggatatgca aggtcctact gtaggtcatc aaaagc 346

<210> 36664  
 <211> 450  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 gcttctctct cctcgtcgtc gtcgccgcgg ctgcggcgag cggcatcgcc tccgctaagc 180  
 cgacggcgta cgaagccctc gccgactacg acttcccccc ggggatcctt cccaagggcg 240  
 tggtcgccta cacggtcgac aacgccacgg gcgccttcac ggccacgctc gatgcctccg 300  
 cgtccggcgc gggatcctcc atctgcgagt tctccatcga gggtcctac tcgctacgct 360  
 accagaccaa gatcacgggc aagatctncc ccgaccacct taccgacctn cagggtgtct 420  
 ccgtcaaagt cctcttcttt tggtcaaca 450

<210> 36665  
 <211> 425  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-043-Q1-K1-H6  
  
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 cggaggtcaa gcccgcctg accaactggt actccgcgcg taagctcatc cgcaccagc 240  
 tcgccagcgc caagtgcga ccgttttttt gccttttttcg tttccgagga gggcgtcgtc 300  
 gatgccaat gggttccaat aaacagggt gtgcccgcgg ttctgttgta ctccgactgt 360  
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 tttgg 425

<210> 36666

<211> 452  
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 <213> Zea mays  
  
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 agagcgattt cttagctcaa ggttttggct cattggggtt gatgacttcg gtactggtgt 180  
 gccctgatgg aaagacgata gaagctgaag ctgcccatgg tactgttacc cgtcattacc 240  
 gtgttcacca gaaaggaggt gaaaccagta cgaacagtat tgcctcaatc tttgcgtgga 300  
 caagaggact agcacacagg gcaaagcttg atgacaatgc tagactactt gacttcaccc 360  
 agaagcttga ggctgcctgc gttggagccg tcgagtctgg gaagatgacc aaggaccttg 420  
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<210> 36667  
 <211> 363  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-044-Q1-K1-A1  
  
 <400> 36667  
  
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 ggccatggcg acgcaggggc aggccgacca gcagcagcag cacgggagggt ctgagccac 120  
 caccagcgtc gccgccaacc gctgggggccc ctactccggc gccggcgact tcgccagcaa 180  
 catggccgtc atoctggccg ccctgctggc cgcgctcgcg ctcggcctgg cgctcaacgc 240  
 cgnctgctgc tacctgctcc gncgcagccg ccgcgcgggc tctgttggtg gacagggcaa 300  
 cggcagcggc gtgctgatgc cgtcggacga cccggctgag aagccctctg tggaggtgga 360  
 gct 363

<210> 36668  
 <211> 436  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-044-Q1-K1-A10

<400> 36668

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catcgttctt cataccctct tatatcagtg aagtccgggtg gatagatgat ggcttccgtg 180  
ggttacttcc atttcccttc aacgagacac tgggtgggac cactgcagct ccgtcctact 240  
tcaataacaa gaacaaggcg gctgaaggcg aatatctgaa agacattgga gcatgtaact 300  
tactgggtga acttgatcta agacggcctt acccctcgcg cgggagtgac tngtcgacat 360  
gggaggcatt ggccgcactg ccgttctctg acagagagct nntccctgca tatatcggtc 420  
cttcttatac catacc 436

<210> 36669  
<211> 62  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-A11

<400> 36669

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aa 62

<210> 36670  
<211> 364  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-044-Q1-K1-A12

<400> 36670

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caaaatacac ttcttattca aaatttgaat aataagtgga tttttgtttc tccaatccct 180  
tccggtttta tggctcccaa actagtccat ctagtgcgtc gggttttacat gtggttcaag 240



tgggggtactg tgtgctaaca gatacaacaa cgaggcttgt ctgtatgtct gctgacacta 300  
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anaa 364

<210> 36671  
<211> 454  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-044-Q1-K1-A2  
<400> 36671

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gcaaagcagg cctttgatga ggcaatctcc gagctagaca gcctgggaga ggagtcctac 180  
aaggacagca ctctgatcat gcagctcctg cgtgacaact tgaccttatg gacttccgac 240  
accaacgagg acggcgggga tgagatcaag gaagcagctg ctgccccaa agaatccgcc 300  
cccgagggcc agtaagacgg atccgatcta ccgacctgat gcgtgtctgc tgatgtcgga 360  
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gttgggtctct tcgtcacggc gccgggtgccc gtgc 454

<210> 36672  
<211> 219  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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gaggaggagc gcggcaaatc ctgggcgcc caccaccact cacatcacia ggccggactac 180  
acgcaccaca ccatacgccg agccgaggag cgcccgcac 219

<210> 36673

<211> 384  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-044-Q1-K1-A4  
  
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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
 aaaaaaaaaa aaaaaagggg ggcctataaa aaaaaccaa tttaactaac acggcaaagg 240  
 aataaaaaaa ttttaaaaag gggaaaccaa aataaaataa aagggaacacg ttttaaaaaa 300  
 gattaaaatt ggaaaaacct gtggaaaaac aaaaaaaacc cccatgaaaa aaaattccat 360  
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<210> 36674  
 <211> 318  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-044-Q1-K1-A5  
  
 <400> 36674  
  
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 aaagtcagaa acaaaataca atagagttgt gaagaaggta tttttgacaa ctatgcatcg 180  
 tacctatctt ggtggcgaaa tcaacttcac tgatggatct attaacccaa aatctacagt 240  
 gggaactcct gcatacattg ctcatgaggt tcttctggag aaggaataca atggaaagg 300  
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<210> 36675  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 cctcctcatc ctgctgctca ttgccctcaa catctccctt tcctccgccg ccaacttcga 240  
 gggcttcgac tccgacgacc ttccctccgc ggccggtggc ctcgatgctg acgatgacga 300  
 ggaaggtctc gacggcgctg acctcccgcc cctccggcc atctccctct ccacctctgc 360  
 gccatcacct nccgtcacga cgacatccgc gccgaaccct aaccccgcta cgcgtacgcc 420  
 tcgg 424

<210> 36676  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-044-Q1-K1-A7  
 <400> 36676

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 atgcggatcc tcatggctcg cctcgacgcc gccggtaaaa ccaccatcct ctacaagctc 180  
 aagctcggcg agatcgtcac caccatcccc accatcggtt tcaatgttga aactgttgag 240  
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 tggaggcatt acttcagaa caccagggt cttatttttg gtgtggacag caatgaccgt 360  
 gaccgtgttg ttgaagccag agatgagctc cacaggatgc tgaacgagga tgagctacgt 420  
 gatg 424

<210> 36677  
 <211> 227  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-043-Q1-K1-H12  
 <400> 36677

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taaagctctt gtgcccatat taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaga gagagca 227

<210> 36678  
 <211> 181  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-044-Q1-K1-A8  
 <400> 36678

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 gatatgcttg gtgtacagca tcaaaatgtt ttaaacttta aaagtgatgt tgcttggtt 180  
 t 181

<210> 36679  
 <211> 466  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-043-Q1-K1-F5  
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 acacatgtgg gagggaaaagc cttgctagat taaaaaaaga gatggaaaca agaactaaac 240  
 gaaaggttca taggatagaa ctatgggagg cagctcataa aaagaagaat ggtagatata 300  
 caacagaaaa ggcagagaca ctgatggctg catcttatga ggaattttaa aaaggcgagg 360  
 gaacaacgat ggtaatcgtc tttcatctaa agattacaat gaaatgttca atgatattgt 420  
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<210> 36680  
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<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-043-Q1-K1-F6  
  
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 ctttgcttcc tggacacaac agccgccgcc acttcctgcc atcctttcgt cgttgattcg 300  
 gtgttcttgg atcggatgcc ttcattctgcc tagatcggag ctagagcaag gtgcgtgggtg 360  
 taaatcccga gaggaggaag aggggaaggg gtccaggccg gttggtcttg ccgcgtacgg 420  
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<210> 36681  
 <211> 458  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-043-Q1-K1-F7  
  
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 gttggaggaa tttttgtcgg agccgctccc cagatcacat accgcttctt cctcgagtgt 240  
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<210> 36682  
 <211> 272  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-F8

<400> 36682

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ctaccatgta agactttacc ttacgcagtt ctgcacttgt aaacggacgc ttaaccacac 180  
tgcagacctg gtctgtctca tcaccatatg tgtcactggc aggcaaccat catgagtcct 240  
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<210> 36683

<211> 373

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-043-Q1-K1-F9

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gaaactcgct gggcccaaaa gagatccaca gctatttgac aagagtgatg tacaaccggc 180  
gcaacaagtt tgatcctctc tggaactcac ttgtacttgg tggggtgaaa aagggtccaa 240  
agggtgatga gaagtatctt gggatgggta acatgattgg taccacttc gaggaaaacc 300  
atgtcgctac tggatttgga aatcatatgg caatcccgat actccgtgct gaatggcncg 360  
atgatatgac ttt 373

<210> 36684

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-G1

<400> 36684

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aacaatgtgg gacccatata taagattctc aagtctggtt acttaggatt ggttaatgaa 180  
 aacctatttt aatgaggctg gtacaaagca gtggctctgtg aaggaaagaa gcagtgcgat 240  
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 atttggaag ccacttcgag ctggcactac atcttaagct 340

<210> 36685  
 <211> 282  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-G10

<400> 36685

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 agaagactag cccccaatgc aagcttgaca tcaagatctg ctccgccatc caactcacag 180  
 ccagccaaat tctcaggaca tatgttctga aagcacaccg tataactcat gctcaactca 240  
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<210> 36686  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-G11

<400> 36686

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 agttccatgt tgccatcaga accttcagct gctgcgcaag tgccatcaag ggaagccgag 180  
 cctgaaccgc acctggaagt ggagcaaagc gtgtctccag cccaagtgc agcaacctca 240  
 tacgatgttg ctgttccaca ctggttccag cgccatgcgg acccttctga gctcatgggg 300  
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 gccataatct gcccggtca tccaaacgcg c 391

<210> 36687

<211> 385  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-043-Q1-K1-G2  
  
 <400> 36687  
  
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 acgccgacca ctgcaagggtg ctcgtgaaca ttgagcagca gtcccctgat attgctcaag 180  
 gtgtgcatgg ccacttcacc aatcgccccg atgagattgg atctggtgac cagtgcacaca 240  
 tgttcgggta tgcgaccgat gagaccctg agttgatgcc cctcagccat gtccttgcca 300  
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<210> 36688  
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 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 cgagctgctc atggctcatgc agaagatgtt gcacttggaa ggcgagctcg aaggcactga 240  
 cattcagaac aagtttggct aggcgtccta cttaagctac tgttcttcga tcgagttcag 300  
 gggccgaaaag tttatgctgg tggagtgatg gtcgatgtaa gtttgctgct ctcatacataa 360  
 aggtaaagct ggatcagctn tataaaatgt atgctaaaat ggtaagtaaa ctntaaacca 420  
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<223> Clone ID: LIB3069-043-Q1-K1-G4

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ggctctgatg gaggggtcttc aggtccttcc cttggaggac gttgtctctg aagctgacat 180  
cttcgtgacc accactggca acaaggatat catcatggat gaccacatga ggaagatgaa 240  
gaacaatgcc attgtctgca acattggcca ctttgacaat gaaattgata tgctcggcct 300  
tgagacctac cctggcggtca agcgcatcatt catcaagccc cagactgact cgctgggtga 360  
tccccgagac caaactggc atcattgtcc ttgctgaggg gtcgctgaag aaccttgcgt 420  
gtgctac 427

<210> 36690

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-G5

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aagataggaa agagagggcg tggatgttgg agagaaaatt acaagatgcc gaagttcctg 180  
tagaagagca aaataacatt ctttaagcatt tggagaaaaa agagactgaa tatatgcgct 240  
tgcagagaca caagatggga gttgaagatt ttgaactttt gactattatt gggagaagtg 300  
cattcggaga ggtgcgtctt tgtagagaga aggcctctaa gaatgtttat gcaatgaaaa 360  
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<210> 36691

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-G6

<400> 36691

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 tccttgaggg actgcatgcc aatgtccaga ggcttaagac atacaaggcc aagctgggta 180  
 tcttcccaag gcgtgcgcgc aagggtgaag ctggtgactc tactccagat gagcttgcca 240  
 ccgctacca cgtccagggt gactacatgc catttactcg tggtgagaaa cgttcagttg 300  
 acgttgtaga ggtcacagat gagatgaagt catttgctgc ctatggcaag ctccgtcttg 360  
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 tttcaggaca gatcttctgg cagcactccc taaaacgcag tctgtaggca tgttcacga 240  
 ctcatgcaat gctcactgcc aatcaggatc tcaagacacg tggctagccg atgggttctcc 300  
 cacgggtaac aagacgcana ttggcaaggc ggtgngggac tgggtactacg atagggaggt 360  
 ccctcggcag attgattgcc cgtatccctg caacccaact tgcaagaccc gtgatgatg 419

<210> 36693  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-043-Q1-K1-H10  
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atcagccctt gagaactgtt tccgaggaat cgcttcggaa gcagataact tgttagatga 180  
gcttcagcgc agcctatcga aacaagaaga gaggctagcc catttcgcag tgaagcagag 240  
ggagggacac ctgagagctg tggaagcgtc acgttccatc tcaaagatca ctgctgggtt 300  
cttccactcg ctagatgtcc atgcatctag gctcaccagt attctggaag acacacacag 360  
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agaaaaa 427

<210> 36694  
<211> 407  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-043-Q1-K1-H11

<400> 36694  
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tgtagagcgc aatgctcgct tttagccaa aagacaggcc aagtgtgaa gaggctcttg 180  
ctgatcctta tttcaagaat atagccagtg tggatagaga gccttctgca caggctgtca 240  
caaagcttga atttgaattc gagaggcggg gagttacaaa ggaagacata agggagctta 300  
tatataggga aattcttgag tatcatccaa agatgtctgaa ggagtttctt gaaggaactg 360  
agtcaagtgg ttatcatgtac ccaagtgcag tagatcattt taaaaag 407

<210> 36695  
<211> 426  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-043-Q1-K1-F4

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ttgtcatggc atccaaacgt atcctcaagg aattaaagga cttgcaaaag gaccctgcaa 180  
catcatgcag tgcaggctct gctggtgagg atatgttcca ctggcaggca accatcatgg 240

gtcctcctga tagtccatat gctggaggtg ttttctgggt gaacattcat ttaccgtcag 300  
 actaccctt caagcctaca aaggtatctt ttaagacgaa ggtcttccat gcaaacaatca 360  
 atagtgatgg aagcatatgt cttgacattc ttaaggagca gtggagccct gctttgacaa 420  
 tctcta 426

<210> 36696  
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 <213> Zea mays  
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 ttctagctct aactctagcc caaactagct ctagctctct acgtgtttgg atccaagggc 120  
 tagtttacia taaatgctat ttataatca tttgtctcgt ttaaaccctt ccttatccgg 180  
 atttagtggt gcaaactctt gtgtggcttc tcccacacac aaataacaca aataaattta 240  
 ttttcacaaa tcaaacaatcc aaatcacat aaattagtaa attacaatag tcgaaaatgc 300  
 attcaataag aaattagaca aaacaaatcc gttgttttcc tgttctttcc aatgtggcca 360  
 gccgtgcccc tncactacct ttccatggat c 391

<210> 36697  
 <211> 382  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-043-Q1-K1-E11  
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 agaagatcga agacagcatc aagttctca ggtccaagcc caagccgctg gcatctacg 120  
 ccttcaccag gaacgagaag ctgaagcaac gcatcataga cgagacgtcg tcggggagca 180  
 tcacgttcaa cgacgccatc gtgcagtatg gcctggacag catcccgctt ggtggcggtg 240  
 ggcacagcgg gttcggccag taccacggca agtactcgtt tgacatgttc agccacaaga 300  
 aggcggtgct caagaggagc ttctcgtcg agttcatgtt ccgctaccg ccgtgggacg 360

agaccaagat cggaatgctc ag

382

<210> 36698

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-E12

<400> 36698

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tggccgtcat ggtgtcagcg gggctgcacg tctccggcgg ccacatcaac ccggccgtga 120

cgctgggcct cgccgccacg ggccgcatca cgctgttccg ctccgcgcctc tacgtggccg 180

cccagctgct cggtccacg ctgcctgcc tctcctcgc ttctctcgca gttgccgaca 240

gcggcgtgcc cgtgcacgcg ctgggcgcgg gcgtcggcgc gctccggggc gtgctcatgg 300

aggccgtgct caccttctcg ctgctcttcg cggctctacgc caccgtcgtc gaccgcgcgc 360

gcgccgtcgg cggcatgggc ccgctgctgg tgggcctggg cgtcgggcgc aacgtgc 417

<210> 36699

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-E2

<400> 36699

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gggctgagct ggggtcctgg tcgctgtacc gcgcgtgat cgccgagttc atcgccacgc 120

tgctgttcct gtacatcacg gtggccaccg tgatcgggta caagcaccag acggacgcgt 180

cggcgtcggg tgccgacgcg gcgtgcggcg gcgtgggggt gctgggcata gcctgggcct 240

tcggcggcat gatcttcgtc ctgctctact gcaccggcgg catctcgggg ggccacatca 300

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tctacatcgt ggc 373

<210> 36700

<211> 415

<212> DNA  
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<223> Clone ID: LIB3069-043-Q1-K1-E3

<400> 36700

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 aaggagcttg agcggacagg tcagccactt tgtatatatg agcctttttt cggggagggg 180  
 acctggccat ttctgcacca gagctctctt tatcgtggag ttggcctgtc ttcaaagggt 240  
 cgaagaccag gagcagatga tattgatgct tcttctcgtc ttccacttct caacaatggt 300  
 tactacagag atattcttgg tgaatttggg gctttctttg ctcttgccaa cagaattgac 360  
 cgaatacaca aaaattcttg gatagggttt cagtcctgga aaggtacagc aagaa 415

<210> 36701  
 <211> 445  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-E4

<400> 36701

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 caacaaatgt tgaaattgaa gtgcctgttc cttcagatgc cacaaacca aatataagaa 180  
 cttcaatggg ttctgctgca tatgctcctg agagagatgc aatgggtctgg aaagtaaaat 240  
 cattccctgg tggcaaggaa tacatgtgca gagcagaatt tagtcttcct agcataacag 300  
 cggaagaagg ggccccagaa aagaaggcac caatacgagt gaaatttgag ataccatatt 360  
 tcaccgtatc aggtattcag gttccgtatc tgaagataat tgaaaagagt ggttaccagg 420  
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<210> 36702  
 <211> 442  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-E5

<400> 36702

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ccgtcgtact accagcagca gcagcagcag gcgccaccgc ctcagtacta ccagcagggt 180

ccccacagc cgtggggcgca gcagcaacag tacgtctccac cgccgcccga gtaccgcct 240

cagatgcagc agtacgtcc accaccgcag cagtacgtc ctccgcccgc gcagcagtac 300

gccctccgt gcgagcagca gtccgtact tcgccccgc agtacgtac ttcgacgccg 360

cagtacgcgc agccggcgca gtacgcgcag tcaccgcagt atgggacaac gccgggaaag 420

cgtgaggtca gaaccctgtg ga 442

<210> 36703

<211> 236

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-E6

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gcagttacct gccagagct gagttcatta tacaataaat accgggatgt taatgtttgg 180

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<210> 36704

<211> 453

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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attcgacttg ctgcacggct ccaattcagt tcatcaccat acacgcatgc atcgtggcgc 180

acgccactca cgagcgcggc gcccatgcgc ccacaactta ttacgactcg tcaccaacca 240  
 accaaaccaa gccaccacgc aggtccagtc caggcgtgtg tgctgtgctc tcctctaccg 300  
 gccgccggcc acatcacgcc gccgaggcgc ccttggcgctc gccgctgcag tagtcgcgaa 360  
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<223> Clone ID: LIB3069-043-Q1-K1-E9

<400> 36705

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 catttacatt gtttttacat cgacttgcag ttctgatgtc atcacagctg aaaaaagcc 180  
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<223> unsure at all n locations  
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caagagctgg gcgtttacat g

441

<210> 36707

<211> 460

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caaaaaaagg agttcttttt atcgacttcc ctctgtttt gcaacttcag ctaaaacggt 360  
ttgaatatga ttttatgcgt gacacgatgg tgaagataaa cgatcgttat gaatttccac 420  
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<210> 36708

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-F11

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atcttcagcc cgtctgttt tctaagatta tcctgagaa atgcaaata caagtcttat 180  
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 <212> DNA  
 <213> Zea mays  
  
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 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 aacccgctcg caatatagtg gtaggtgagg aaacctttgc ttggctntga ttagaaaacg 360  
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<210> 36711  
 <211> 279  
 <212> DNA

<213> Zea mays  
 <223> Clone ID: LIB3069-043-Q1-K1-F3  
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 cctgttcccg tctgttatat accttatcgt aggctgatat gcccaacagt atgtcagttt 180  
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<210> 36712  
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 <213> Zea mays  
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 ctcgtaagg cgggcgcgcc agttgaccag accatcgca cgctcgcagc tcacttggag 360  
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<210> 36713  
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ggcttcccta cctcggacgc tgagcaagca tccaagtoga ccgtttccat tcctgatgat 180  
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acaagtgaag aaagggagct gaagcggaag caagcccgcg tcagagccac gttcgtgcag 300  
gacctgctgc tctctactct attcggcgac tgatgacaaa ccaatgctcc agagttcaga 360  
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<210> 36714  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-C6

<400> 36714

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cctccttttg tacttctgga aatacttgtc ggtggagaag gatcaggagg gtgggcagcc 180  
cacaggacca gaggtgggtg ccgacgatga gggtacttcc catcggttca caccggctag 240  
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gaaaactgca tatacagagtg taaatgtatt ttgctcttcg atatgggttt agctttctgt 300  
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 <213> . Zea mays  
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 <213> Zea mays  
  
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 cggcggaggt ggcgcgggag ggcgcgcagg ggaagctcta cctgcagggc cagcaccggg 300  
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 <223> Clone ID: LIB3069-043-Q1-K1-D11  
  
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 ggatttgggt tcgtggagtt cgttgatgct tatgacgctt ctgaggcaca gtaccacatg 360  
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 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-D12

<400> 36720

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ctcctcaaga gccaaccact gtaccagtac atactggaat ccaccgtctt cccacgcgag 180

ccggactgcc tgcgggagct ccgcgtcgcc accgccaccc accccatggc gggcatggct 240

gcgtcgccgg acgaggtgca gctgctgcag ctctgatcg agattcttgg cgccaagaac 300

gccatcgagg ttggcgtctt caccgggtac tcgctgctcg ccaaccgcct cgccctcccc 360

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cccgtgat 428

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<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-D2

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gagaaggatt cttggcacgc accaccaggg gggggggcgt cattccgcgg caacgactgc 240

cgctggccgc gtgcggaggc tcgggctccg cggtgcgcgc agcatctcga tcagcgactc 300

cgccttggtt ttgagcttgg ggcgggcgga agaggactgg gagagggcga cgaggggcgg 360

gatggcgccc tcgcgggcg 379

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<212> DNA

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<400> 36722

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ccattgcttc ccttcagcaa ggcagacgaa caagaagata agaaggatgt gccgaggccg 180

gtgacatact cctactcttt ctttcacctc atcttctccc tggccagcat gtactcggca 240

atgctcttga ctggctggtc aacttcggat ggtgagagcg gaaagcttgt ggatgttggg 300

tggccatctg tctgggtcag gattgcaacc cagtgggcga cggcaggtct gttcatatgg 360

tcgcttggtg caccgctact ctttcccgac agggaattct aagttcaacc acggtgaagcc 420

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<210> 36723

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-D4

<400> 36723

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gaaagacctt gtggctcagc agaacatgta tgcacagctg cttcctctcg ctttgccccg 180

cccgccaatg cctggcatgg gtggccctcc acctccgatg ggcggaatgg gcatgcctcc 240

gatgggtatg ccgccgatgc cagcatttgg gatgccaccg atgggaagct actgatttgg 300

ttttgcagca taagtggaac ttcattggag ttgtagatgg ttgacagttt ggaatcaata 360

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gagaagtgca acctgtgata ttgtta 446

<210> 36724

<211> 457

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-043-Q1-K1-D6

<400> 36724



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ctggccggcg acatcaaccg cgaccgcaca atcacctgctc tggccgtggc caacggcgac 180
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cacgtcgtcg ccgactacta cgacgacaag aagctcaagc agctgtcgca cgccgccacc 300
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ataacgcagc accgcggcgg caaggtgtcg ttcacgtggg acgacgcggc ggacagcgctc 420
aagcccgctc cctacgtgaa gcagatcgag agccacc 457

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<210>      36725
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<223>      Clone ID: LIB3069-043-Q1-K1-D7

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ggcaaggatg gccccgggtc cgccgccgcc aaggaggagt cgagtgggaa gcggtgccga 240
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cagagcagta gcgagaatgg tgggtggcaag aagcagcagg ggaaggagag cgcgacgaag 360
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<213>      Zea mays

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 gctcaaggta tggatctcgc tcaccttact cgagaagcac aaggatccga agtcgctcta 180  
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<210> 36727  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
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 cgagggtgcc aagaccgcg agaacttccg cgcgctgtgc acgggcgaga agggcgtggg 180  
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 ggccaacgcc gggcccaaca ccaacggctt ccagttcttc atctgcaccg tcgcgacccc 420  
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 <223> Clone ID: LIB3069-043-Q1-K1-B1  
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 aagttggaac tttctgctgt gccatctagc tattacagtg gtcagctaga ccctgaccgt 240  
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<210> 36730  
 <211> 451  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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cacgtcgtcg ccgactacta cgacgacaag aagctcaagc agctgtcgca cgccgncacc 300  
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<210> 36731

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-043-Q1-K1-B11

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aaagtcaaat ccttgctggg ggccgagggc tgggaacttt caaaagtggg ctgcaaggag 360  
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<210> 36732

<211> 404

<212> DNA

<213> Zea mays

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<400> 36732

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tctggcctta gccactcttc tacaaatcct tgcaaaggcg gcgaacctat cgaagaggat 240  
 gtggacatct gtggcaatgc ctcacctatc atgctagaca aagatgcaca aatcaggaat 300  
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<210> 36733

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-B2

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 taaagggttg agcaaagata gattatagag agcagagaaa acccatctat ctaaggtttt 240  
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<211> 439

<212> DNA

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 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <211> 369  
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 <213> Zea mays  
  
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<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-043-Q1-K1-B8  
  
<400> 36737

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<213> Zea mays  
  
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<210> 36739

<211> 223  
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 <213> Zea mays  
  
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 gcccgctgct gcaactcgcc tgcagggcgt tcggcgctga cgccggcgcc gacaggatca 180  
 cgtgctccct gcaggacgtc gccagcaggt gcgtcgacgc cgccaagctc gccggcttcg 240  
 cgctcgccac ctggcgctc ctgctctcgg gcgcgagcgc ggagggcacg cccaagaggc 300  
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<210> 36741  
 <211> 372  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-043-Q1-K1-C12  
  
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cgtcacgttg attacttttt gagacaaatt ttgaagtttg aggaaatgat tggatgaactg 180  
gagaaggtag agcttgactg aaatctgata gcgatcatgg agagaaatgt cactgtttcc 240  
tttttgctct cttttgtact ccgttgaaac cccatctttt tttgtttcct tattgactct 300  
gaagcccggt gaaaccggcc attattaacc gtgtaccgtg taatgttact taggcctgt 360  
ttggttcgga tt 372

<210> 36742

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-C2

<400> 36742

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acagagctac ctaaattggga ataccacaat accgaccgaa accaccatga ataactgaat 180  
taagcttaca cgacatagcc aacacgggaa accatthttga tgaaattctt gcggctgcct 240  
ggatgctgtg tgcacacag tattgaacct tacgtgtcgc agcagcagac aagaatggca 300  
agtttcaatg atatcgagc taaaacagca tgttgaattc tt 342

<210> 36743

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-A7

<400> 36743

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ccttattagc aataaacaag aggcggattt tgtggaaacg aagtcagacg gtggcagtag 120  
tgaggggatg attttttgag taggttttgt taagtcatat tttgttcaat tcccccaaa 180  
cacttgattt tttgtttctc tgattctatt tgggatattc tgtttgattc tgttgaaga 240  
ttgtttatgc actgaggtgg ttataatgg cttaagcatg cagcccagcg aggtgatcta 300  
tgcaggctta t 311

<210> 36744  
 <211> 398  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-H12

<400> 36744

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cccacgcgtc cgcaatgtgc tacaaataat taaattaaaa ccaaaagacc ccggcgcgga    60
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caacaagggg ttccagcggg accagaacct gcagctgcac cgccggggcc acaacctccc   180
ctggaagctc cgccagcgca gcagcctcgt cgccccgtcg tcggcgggcg caggctccgg   240
cggcaggcag cagcagcagg gcgaggccgc gccgccgctg aagcgctctt acgtctgccc   300
cgagcccacg tgcgtgcacc acgaccggc gagagctctg ggggacttga ctgggatcaa   360
gaagcacttc tcgcggaagc acggggagaa gcggtggt                                398
  
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<210> 36745  
 <211> 384  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-H2

<400> 36745

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aggagggaga tctccaggac tagaataggc tgcttcacat tcagtcaccg tcagtcatga   180
aaaactaatc atttgctgct ttctgctgct gtagtagtag taggtcggta atcatctgtc   240
gtgggtttgt ttggtttcta tcattaatca gcattagtag tagcagctgc tgctgcgggg   300
gcacaacaca agggggggat aggaactgca ataccctgtt gcgctttggt tgtttctgga   360
accgatgtta tggttaaattc tcaa                                384
  
```

<210> 36746  
 <211> 372  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-H3

<400> 36746

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ttttagtacg acgacttatg ttggttttca ggctgtaatg accgaggaaa tgtcagaaaa 180  
atttcgcgggt ttgcctggag tagttttcat ttgacctgat tcatatctat atccagaaac 240  
aaaggagtac ggaggagaca aatatgacaa tgggtgtcatc actccaagac caccacctgt 300  
tcattatagc agaccatcaa gaactgacag gaaccgtaac taccgaggaa actaccagga 360  
tggcccttca ca 372

<210> 36747

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-H4

<400> 36747

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cctcgggtact atgcceaagg acgggggtag ttctgatgag gccagaaga ggatgtatga 120  
tcatacgcgc accacccatg ttgactata ggctgctaaa accgatgaca tgccataccg 180  
attactcggc atgacggccg ttatccacat tcagcctgac acatatctat agccattcac 240  
gaaggaatac ggacgataca aaaattacat tcgcctcatt actacgagtc cagcacctgt 300  
ggataataac atagcattga ttactgacac gatccccaat taccga 346

<210> 36748

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-H5

<400> 36748

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aaacaattgc tgagaagagc acatgaggac tttcgcagtc tgctttgcat tgtatgttaa 120

gatacttcag gtctcagttt tgattgatca ggttctgccc cgtcgaaaaa aatactagct 180  
gttgctgctt tacagggttt tgtctcagtg tattgggtggg tgtttatttt cagctacttg 240  
agcatggggg ccatgattct ttgttcatct tggatgtaac tagctgattg gtgttccaat 300  
gatgttgtat ttgcagaacg attttttcct tttaaatac caacaaccac cacactaggc 360  
tttttctg 368

<210> 36749

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-H6

<400> 36749

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ccgcacccgc aggaatgggt atcgacctcg tcgccggtgg gaggaataag aagaccaagc 120  
gcactgcgcc caagtctgac gatgtctacc tcaagctcct cgtcaagctc taccgtttct 180  
tggtcaggag gaccaagagc aatttcaacg ctgtcattct caagaggctt ttcattgagta 240  
aaaccaaccg accaccaatc tccatgcgcc gccttgtcaa gtttatggaa ggaaaggaga 300  
agaacattgc tgtcattggt ggcacagtca cagatgacaa aaggatccag gaggttccag 360  
caatgaagggt tactgccctg 380

<210> 36750

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-H7

<400> 36750

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gggaacgaca aaacctatga ctacatagga ttttattgaa aagaatccta acacttcatt 180  
gggtgggatg gcggaacaaa ccaaaaaaat tgctttattt gataaggttc taaattaaca 240  
aataagacag gaaagagtaa atattcgccc gcgaaatcct tattggatta gaatacttta 300

ccacgattca ataagaataa aaaaaaagga gattccaaaa aaggaaggat tacattttat 360  
ataaatattg aa 372

<210> 36751  
<211> 380  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-042-Q1-K1-H8  
  
<400> 36751

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atacaaggcc tgcgagtcgc ctgactacat caaatgggga atggaggacc ctggagaggc 120  
aaatgttgtg gcggcacttg actctaagtt ggtagtgtaa atataaaggt accatctcac 180  
agtattaggc actttttatg cagaaacaat ttgacgcaca atcatattga attgattatc 240  
cacttgaaac cttgaacact tgctttcttt tgataaccat gtggactaca ccaattatta 300  
taaacgatgc acaatctctg ctagatgttg aaaatgatac taaatccctc atttttcgta 360  
tctattgctg gcaaataaca 380

<210> 36752  
<211> 415  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-043-Q1-K1-A10  
  
<400> 36752

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gccgacgaca agctcggggc ggcggtgggc gcggtgttcg cgtcgacggg ggagggccag 120  
gaggcggcgg tgcggcaggt gcacgagaac ctggcgctga tcgagtcga gctccgcgac 180  
ggcgcgttcc ggggcgcgcg cttcttcggc ggcgacgagg tgggcctgct ggacgtcgtc 240  
ctgggctgcg gctcctaactg gctcgccgtg ttcgaggagg tgaccggggg gcgcctcgtg 300  
gacgccgacg ccttcccgcg cttccacgcc tggtcgcgcg acttcgaggc cctggacgag 360  
gtccggggaga ccattcccgc ggtggaccgn ctgctcgagt acgcgcgcgg gcttc 415

<210> 36753  
 <211> 455  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-043-Q1-K1-A11

<400> 36753

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cccctggtaa atgtgctggt ctgtggctgc actggtcata accatgatct ggagctttga  180
aggcatagcc acctgtgggtc agcagctgct gccgtgttgt tagaataaag ttggtggcga  240
tcgatcgatc tgtggtgatg agtgtcccta tctgtgtggt tgtgtttagt tccagtcgtc  300
tgtgaggaag tcagttatgt ttgagtgaga ggggtacttc gctcttcggt gaacactgta  360
cttgtcatga ggagagtttt catacccgga gtgtangaac tctgtactgt actcggatcc  420
ttcctttntc atcgaagtgg gttttatttt aaaaa                               455
  
```

<210> 36754  
 <211> 469  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-A12

<400> 36754

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caggtgaagc agcgacttgg gataatcata ttcacctgcg gcaaggttat tgggaacaag  120
tgggatgtct acctcgacct cctccaggcc gactactcag aaggggatgc tctggatgct  180
ttggaattgt tccgtactg ctgcaggcga atgctcatga cacatgttga cctcattgag  240
aagttgctca actacaacac cctagagaag accgagacaa gttaagcgag cacatcatgc  300
tccaaaaaca ctactgtttc gcagtatcat agagcttagg tagtatgttg tctcttctct  360
atcagtagaa atgggttggtg agtgtgaaca tgcttttgct catgagcatt caaggacttt  420
tcatgcgaca gtgcttggtg gcacctatgc aacgatgggt gatatttta                               469
  
```

<210> 36755

<211> 466  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-043-Q1-K1-A2  
  
 <400> 36755

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tgtttcagtt tgcagaattg gttaacaact tggtgcacaa acttttagta aagatttatg  120
tagattgcaa taagagctgc agtccctagc atgttgGCCa tcacttgcgt ccttcctatg  180
gccgctaaga agcgatacaa gccattgac atttgatgca tggcaaaaag taccagaaag  240
tgctggagga tcctgccata agcaatggaa tttcatttct tgcttttacc tattgaagtt  300
gaagcatcag aagtcattca gcatgcaagt accaggagat gagtacctga tagcagaagg  360
ttctagcaca agctanttgc tttcatcaca aggttcctgg gctttggatc tatgcggcag  420
catgggaatt cgattaaac ctgaacgtcg tcgtagcatg tgcact                      466
  
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<210> 36756  
 <211> 150  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-043-Q1-K1-A3  
  
 <400> 36756

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tgggacggta cagcttaggc tatgtcaaaa ttttgggatt atgaatatca acgaatggta  120
tgccctaagg cggctgttat tgaaaagact                      150
  
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<210> 36757  
 <211> 453  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-043-Q1-K1-A4  
  
 <400> 36757

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ggtttattcc tccgtgccga tctcgtcttc tccggcggga ccatggcgcc gtcctctctc  120
  
```

cgattcgacg atccggcggc ggtgaggcgc cccccgcagc atgaacggaa gccgccgtat 180  
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cacaatcccc tggtagagga ccgcctcttc tacggcgctc tcgccggcgc attcgccac 300  
ggcgcctacc tcatatcgga actgtatgat gtggagagca aatgatggac atccctcgaa 360  
ggatgagggg ataacgtttc aagtagcaaa atttgattcc atcgggattc cagattgttg 420  
gatgagagct gacatggcaa tttatactaa cta 453

<210> 36758

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-A6

<400> 36758

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ggcgtgtcgg agctagtcca tcgctttcgg cttgggtcgt aactactacc ctaaacttca 180  
catttgatat aggagccgac actggtaagg gacgaaaatt tcctggtgtt acggatgcca 240  
agggcctcct tctcaatcac aatagcctgt ctgggccact tccggcggac cttggctatt 300  
ccaaggtgag ctacctagct ctggctaaca acaggctgac agggccaatc ccgcaatoga 360  
ttggccacct ccaggattcc ctcttcgaga tgctgctcct tgacaaccag ctttccggat 420  
gccttccgca cgagc 435

<210> 36759

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-H11

<400> 36759

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gctgtcgcgt gctaccgagc tcaggagacc ttcgaatcga ggaagttcac ccacaagtcc 180



gacgtgtacg gcttcggcgt cctgctcatg gagacgctga cgggcaaggc cccgcttcag 240  
 tcacagggtc aggacgacgc cgtcgacctc ccgaggtggg tgcattccgt ggtccgcgag 300  
 gagtggaccg ctgaagtgtt tgacgtccag ctgatgaagt atcccaacat agaagacgag 360  
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<210> 36760

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-F7

<400> 36760

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 gcggcggtga cgaagctggc gcggttcgtg ttcgagctgc tgtccgagtc cctcgccatg 180  
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 taccgcgcgt gcccgaggcc gcaccgcacc gtgggcgtca agaggcacac ggaccctggc 300  
 ttcttcacca tcttctgca ggacggcatg ggcggcctgc aggtgcgcct cggcaacaac 360  
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<210> 36761

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-F8

<400> 36761

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 ctaaagaatc tcagctatca gtacagtact ggagcagatg gtcgcattga gatgatttct 180  
 aatgctgata atgaccgcaa ataccagcg ccacgtggct acttcttcaa gcttctgaaa 240  
 ctgaacgcac ctgaatggcc atatgcagtg ttgggggcca ttggttctgt cctctcagga 300  
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gaccccaatg aaattgaga

379

<210> 36762

<211> 362

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-042-Q1-K1-F9

<400> 36762

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cgttcggcaa cccgctctgg gtaccggagg acgtcgacga ccagcagcag caccacgcgc 120

cgccgcccgc gcccatgggg ttggggccgg ggcaggggca cgatgaacag aacctcctgg 180

ccctggcctc cgccgcccgc atggggggccg gcggtatattt cagctcgcca gcggtgctcg 240

acgacgactg gtacttcgac cccgtggctg tggccgncgn cgccggcgct caggggcagc 300

tgctcctggc accgncgggc ccagcgcccg acgccgggtc gcagatgttc tcgctcttca 360

ac 362

<210> 36763

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-G1

<400> 36763

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gcacgtgacg cagccacggt acacggcgta cgggcagacg gagtccggcc agcacgggag 180

cgccgaggag gagagccggc tgatgcgcgc cctgcggggc gcctaccgcg gcacgttcat 240

gtgcagcggg ggttacacgc gcgagctcgg cgtggaggcc gtcgagtcgt gggacgccga 300

cctggtgtcc tacgggcccgc tgttcatcgc taaccgggac ctggtggagc ggttccggcg 360

cgacgccccg c 371

<210> 36764

<211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-042-Q1-K1-G10  
  
 <400> 36764  
  
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 accaccgccc tctccgccct caccgttctc caccaccacc tcaacgccac gctctccgac 300  
 tccccggggc tcgcgctcgt gtcgcgcgtc ctgcccttca tcctgatgat ccattgtat 360  
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 agc 423

<210> 36765  
 <211> 377  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-042-Q1-K1-G11  
  
 <400> 36765  
  
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 ggtggacctg gaggtcgaca ccgggggagac gctgtaccgg gggatctcgc gcgggggagag 180  
 cgccctacga tggggcttcg tccgtatggg ctacggcatt ctgcgtcgcg agctgctact 240  
 caccaccgtc gtctacggcc tcaactcgtc ccagctcacc ctcaacgtca ctctcttcga 300  
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 ttattatcag ctcaagc 377

<210> 36766  
 <211> 400  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-G12

<400> 36766

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gctgacaacc ttgtgtcttt cctgaacaat gccaaaggag ctacagtggg agatgctgtt 180  
aagaagcttg gtctctgggg tctcttctact agaggacttc ctcttcgtat cgtcatgatt 240  
ggtagcctta ctgggtgctca gtggggaatt tacgatgcat tcaaagtgat ggttggactc 300  
ccaacaacgg gaggtgttac acctgcccc gcagcagagg ctggattgaa agccagtgc 360  
tgattttttt ttctgtgttc cctgagatca tatttggtag 400

<210> 36767

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-G2

<400> 36767

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gtacgtgacg cagccacggt acacggtgta ctgtcagacg gaggccggcc agcacgagaa 180  
ctccaacgat gagagccggc tgatgcgcgc cctgcggtgc gcctaccgag gcacgtgcat 240  
gtgcagcgaa cggtagacgc tcgagctagg cgtggaggcc gtccattcgt gggacgccta 300  
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<210> 36768

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-G4

<400> 36768

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gcttttttcc ttggttccgg cactaactta ctacaaggac tactccttga accaacattt 120

gataactcaac tctgtaccct taatactgct cacatatctt ccatttacca accaactaac 180  
ataaaaaacc acccgcataa gaatctaccc taaacttacc attccatgac caaaacatcc 240  
aattcgaaaa acaggcttat tactactaaa tccaatgaa tgaccacgtc taaattttta 300  
agagaat 307

<210> 36769  
<211> 371  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-042-Q1-K1-G5  
<400> 36769

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ccctgccaaag gaggctgcta gcttcacgtc ccaggctcgc atcatgaacc accctgggca 180  
gattggcaac ggctatgcc cagtgtgga ctgccacacc tcgcacattg ctgtcaagtt 240  
tgcgagctc attaccaaga ttgataggcg gtctggcaaa gagcttgaga aggagcccaa 300  
attcctcaag aatggtgatg ctggtatggt gaagatggtt ccactaagc ccatggtagt 360  
ggagaccttt t 371

<210> 36770  
<211> 379  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-042-Q1-K1-G6  
<400> 36770

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ctgggtcggc cccttcattg gcgctgctct ggctgccatc taccaccagg tgatcatcag 180  
agccatcccg ttcaagagca ggtcttaagc tgccgtggcc gtgccgagac atgccagtcc 240  
gaagaacggg cgtcttcttg tgatgtcttc ttgtctgcc acgcctagtt tctctgtcga 300  
ttcctattcg tcgtctcttc agggctggtg ctactgctg cgccgttctg ttaaccgaaa 360

caagaactct gtgtattcc

379

<210> 36771

<211> 358

<212> DNA

<213> Zea mays

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<400> 36771

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ttagcaggct aataacttgc aggagcagca ggaatggcgg cgacacgtcg cctctcttgc 120

tttctcctcg ccgtgcttct ggcacgagtg gccgctggca ccgccttcga cgaaacggct 180

gctgccggct tcgggcttgg ccacggcgcg cgtttcgcg cgaagcatgg acgtgctgcc 240

gctgagatgc ccagccgga gccacaacct aaaactaagc cggaacccca tatgcagcca 300

ctgtcccagg cagaacctaa acctgaacct atgccacatt cagagccaaa gcctgaac 358

<210> 36772

<211> 380

<212> DNA

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<223> Clone ID: LIB3069-042-Q1-K1-G8

<400> 36772

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cgcggcactc gccgccgttg aggaggaggt ttccggcgct gcttccagcg ccttgccgtc 120

agcaccatga ggaagaagct ggacacgcgt ttccccgctc ctcgattaa aaagatcatg 180

caaacagatg aagacgtcgg caagattgct caagctgtac ctgttctagt gtccaaagca 240

ttggagctat ttctgcaaga tttatgtgat aggacatatg atattacaat tcggaagggg 300

gtcaagactg tgggttcttc ccatttgaaa caatgcatac aaacgtacaa cgtctatgac 360

ttcttgaggg aagtagtcag 380

<210> 36773

<211> 76

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-G9

<400> 36773

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<210> 36774

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-H1

<400> 36774

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ggtaggagtg ctcggtttgc cccactacaa catggatgac atgcctgggtg tgtcatttca 180  
tgttgcgctt caccttgccc agataaagag ggcaaagaag ttccaaatgt atgactacgg 240  
tagctctgca gcaaatattg aagcgtacgg aacaccggaa ccattggact tgggagctca 300  
ttatggtctc attgacattc ctgtggactt agtcgctggg cagagggaca gagttatctc 360  
accatccatg gtaaa 375

<210> 36775

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-H10

<400> 36775

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gcgaagctgg gcaactgtgaa gcaaaaagct tcagaaactt cttctgttgg cgcatatacc 180  
caatgccaga agtgtttcca gcatggtcac tggacatatg agtgcaaaaa gagcgggtgt 240  
acatatcacg gccctcaaga acgtagcagc ttaagaacct caagctgaag aaatgcgtac 300  
ctgtttctta tcgatttgag aatcctgatg gtgatcggcg atcgtgagct tccatgttat 360

gtgttgtgat acttgagact tttattatga ctatatatga gatattggct attattatga 420  
ctggatgaaa tgtgcttatt atgact 446

<210> 36776  
<211> 377  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-042-Q1-K1-F6  
  
<400> 36776

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ccacctgccg gtcattgatcg gcgaggtcgg ctggccgacg gacggcgaca ggcacgccac 120  
ggcggccctc gcggagcgct tctacgcggg gctcctccag cggctcgcgg ccaggagagg 180  
cacgccgctc cggcccggcg cgcgcacga ggcctacctg ttcgggctcg tggacgagga 240  
cgccaagagc gtggcgccgg gcaacttcga gcgccactgg ggaatcttca ccttcgacgg 300  
gcgggccaag ttcccgtcgg acctgcgcgg cgacggggcg ccggcgatgc ccgtcccggc 360  
ccggngcgtg gagtacc 377

<210> 36777  
<211> 352  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-042-Q1-K1-E11  
  
<400> 36777

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cgtcggcggc ctgcctggg ccacggacga cactccctc cacaacgct tcagcaccta 180  
cggcgaggtc ctcgagtcca agatcctcct cgatcgggag acgcagaggt cccgcggctt 240  
cggcttcgtc accttctcca cggaggaggc gatgcggaac gccatcgagg gcatgaacgg 300  
caaggagctg gacggccgca acatcacctg caacgaggcc cagtcccgcg gc 352

<210> 36778  
<211> 274



<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-042-Q1-K1-E12  
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 aaaaaaaga aaaacaaaaa aaaaaaaac aagacttaca gacacatgca agcaaataac 180  
 taaattataa aatgagctac cttaaattaa ttgactggcc atcgatatac aactgactga 240  
 caagaaaaaa cctgtacgta accaaattaa tcgg 274

<210> 36779  
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 <223> Clone ID: LIB3069-042-Q1-K1-E2  
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 aggctgggtg cccagcatg aagtccgagt cgagaccgt caaggccagg ctacacatct 180  
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 g 241

<210> 36780  
 <211> 376  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-042-Q1-K1-E3  
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 cctgtagtga gtcatgctag aacaaaggt tctacaaggg ttaaacttca cagggaattg 120  
 gctgcattgc tggaagagga gctttctgc aggggaactt cagtgttacc agcgggtgaa 180  
 caatttggga aatggaaagg actgcaagaa agcactgatc gtgagatagt gtggccacca 240

atgggttattg ttatgaatac cttcttggaa aaagatgaag atgataagtg gaagggcatg 300  
 ggaaaccaag agctccttga ttatttttga gaatatgaag caagtaaagc acgtcatgcc 360  
 tatggtcctt ctgggc 376

<210> 36781  
 <211> 379  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-042-Q1-K1-E4  
 <400> 36781

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 gcggcgcgcg cggtcctcgc accaccacca ccgggaccca gagccggagc cggagcctgc 180  
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 ggaggaggac atggaggccg agcagcagcg cctcgacgac gagatggagc gccggcgccg 300  
 gcgcgtcaag gagtggcagg agaagcgccg cgagcagcag cagcaggacg gcagtgttgc 360  
 cagtggcgct tctgctgct 379

<210> 36782  
 <211> 372  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-042-Q1-K1-E5  
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 gaagagggcg tcgatgatct cgatcctcgt cagcacattc ttctacctct gctgcggctg 120  
 cttgggctac gccgccttcg gcagcgacgc gccgggcaac ctccctaccg gcttcggctt 180  
 gtacggtccg tactggctca tcgacttcgc caacgcgtgc atcatcctcc acctgctggg 240  
 cgggtaccag gtgtacagcc agccgatatt ccagttcgag gagcggctct tggcggagcg 300  
 gttcccggac agcgggttcg tgaacggcgg ctccctacacc gtccgggttcg cgtgcctgcg 360  
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<210> 36783  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-E6

<400> 36783

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 cccagagccc gagccagagc ctgaatcccg ggaagagcag gatgtggacg ccgctgaggc 180  
 tgagcgcccg tgccagcgca agaaggagga ggacacgaag gccgcacaca agcgccatta 240  
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<210> 36784  
 <211> 370  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-E7

<400> 36784

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 tggaacaatc agatctttct ttgatgcaaa catggccctc tgcgagcagc ctccaaagtt 240  
 cgagttttac gatccgaaaa caccattctt cacttcccct cgggtacttg caccaacgaa 300  
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<210> 36785  
 <211> 175  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-E8

<400> 36785

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ccaccgtcgg gcttggctta tgctaggcag tgtttctttg gtattgctcc tcatagtctt 120  
tccaatctg aaagtgattc tcttttaaaa attccatctg atgatgattc caacc 175

<210> 36786

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-E9

<400> 36786

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ccgtcctcgc cgctacctat ggcttccacg tccggccgctc tcttgctca tctgttccc 180  
cgccgctgct ctgccaccc actatcggag gcattgtgtc cagcaacatg gttaagaggg 240  
tatgctgtct gagcgccagg gagatccgaa cggatgatgcc ctctactcgc tttccattgt 300  
cagtggggct gccatagttg gagagtggcg gcgtagcatg ccgacgactg cgagttcctc 360  
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<210> 36787

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-F1

<400> 36787

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gcgccgagaa ccgtggatcg tcggagaaga ggctgagctc cgcgagccgg gccaaagacc 240  
gcctcaagat gatgctgaga tggcctcgcc acaaggacaa gacgccaag aagtcagagg 300  
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cgctgaggca ga 372

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 <213> Zea mays  
  
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 gcattgaatg agatcaaatt ttcactagggc tggagagttg tatactcatg ggtcgggtgat 240  
 gatccttgtg ggcattggtga tctaccccc tggtctggtg tgacatgttc tcagcaaggg 300  
 gattacagag ttgtgacgga actggaagtc tatgctgtat caatagttgg ccccttccca 360  
 acagcagt 368

<210> 36789  
 <211> 404  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-042-Q1-K1-F11  
  
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 aaaccagtac attaccacca tggttcttga ttcattatca tcacctcaca ggaggtccca 300  
 aaacacattc ttcgtgtcat ctgcaaaaaa gcctcagtca tctcgtgacg acagttgggtc 360  
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<210> 36790  
 <211> 396  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-F12

<400> 36790

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accctacatt atttgagggt actatcagaa tgaaccttga tcctcttgaa gagtgactg 180  
atcaagaaat ttgggaggca ctagaaaagt gtcagctagg agaggtcatt cgttccaagg 240  
aagagaaact tgacagtcca gtgctagaaa acggggataa ctggagcgtg ggacagcgcc 300  
aacttattgc actgggtagg gcgctgctca agcaggcaaa aattttggta ctcgatgagg 360  
cgacagcatc tgttgacaca gcaacagaca atctta 396

<210> 36791

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-F2

<400> 36791

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ccatgcctgc gcagactatg ccaggcagaa actttcatct ccaaacttca aggttgatgg 360  
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<210> 36792

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-F3

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<210> 36793

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-F4

<400> 36793

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tccgcccgtg acctaccctc ccggcggagg cgggggaagc tcgacgccgt gcccgccgcc 180  
accgagcccc acgccgacgc cgtcgtcgcc tacgtgcccc gctgactcgc tgaagctggg 240  
cgcgtgcgtg gacctgctgg gcgggctggt gcatatcggc ctcggcgacc ccgtggtgaa 300  
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<210> 36794

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-F5

<400> 36794

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cttcagttat gatgatggcg acaacaaaat gagcacatct atccaagcag atcaattggc 180  
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aagtgcgcta gagaagatat attctttcaa tgtgatgaag ttcaaggggtg gtacaagggg 300  
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<210> 36795

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-E1

<400> 36795

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cgccccgtc tatctcgccg ccgtgcttga gtacctcgcc gccgaggtgc tggagctggc 300  
cggaacgcg gcgaaggaca acaagaagac gcgcacgtc ccgcgacact tgcctctggc 360  
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<210> 36796

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-C2

<400> 36796

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ccgcaggagc gaggacattc agcttcgatg caaatccatg cgattacttc caggggtggca 180  
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tcgctcaagt gtttggg 377



<210> 36797  
<211> 378  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-C4

<400> 36797

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gcagatgatt agcaatgcaa ctggagtcc atcagagaat attctttatc ttggcggacc 240  
taatattgct tctgaaattt acaacaaaga atatgcaaat gcacgtattt gtggagctga 300  
caaatggaga aagccccttg caaagttttt gaggcagcct cattttattg tgtgggataa 360  
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<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-C5

<400> 36798

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agtctaaggg tggcaaaaag tctagcagta gtcgttctat gatgtatgaa gctccccttg 300  
gctacagcat tgaggacgtt cgacctgccg gaggcgtgaa gaagttccag tctgctgctt 360  
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<210> 36799  
<211> 372  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-C6

<400> 36799

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tcctcgaagt gttgatggag agcacgcccc gcgagatcga cgccaccagg ctggagagcg 180  
ggctctgcgg gatggagggc gtggtggccg tccacgagct gcacatctgg gccatcacgg 240  
tgggcaagggt gctgctggcg tgccatgtga ccatcgccag ggatgcggac gctgatgaga 300  
tccttgacaa ggtgatcggg tacatcaaga cggagtacaa catcagccat gtgaccatcc 360  
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<210> 36800

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-C7

<400> 36800

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cttcagaagg tatttgagat caagcgtcag gaaattttgc aggttgcata aattttaagc 180  
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aggcaaagtgt ttgtacagta gctaaggatg taacgagttg ggcacgaata ctaccacgag 300  
tcactatcct tgtgctggaa ttacagtac ggtggaaact aaaatggtgt aagtttctag 360  
tacacgagtc ac 372

<210> 36801

<211> 373

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-042-Q1-K1-C8

<400> 36801

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tcccggtgac caaccctgcg tccggatcgt ccccgggcgc cgccggaggc tccgatgcgc 180  
cgatcgctac gccggctttc cggctcttcc tgagccggat ctccgactcg gcgcggcgct 240  
cgctgtcgg a tgcgcggccg tggggagagc tcctcgaccg ttccggcgttc tcgaagccag 300  
actctctctc cgacgccacc tcccgctgc gtcgcaacct cgttacttc cgcgtcaact 360  
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<210> 36802

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-D1

<400> 36802

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cctggcaatt cgtttctatg tgatttcacc agccccagcc tcaccgccga gtgcttcatt 180  
ttttttatgg tttctcatcc taatcatcat cggaaccaa ctaatgaagc actgcgcgcc 240  
cattttcccc atggtttctc tgtaatcaac tagaagtgat caagtaccaa gcagtgtaca 300  
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<210> 36803

<211> 406

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-042-Q1-K1-D10

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ccgaggcctt cgccgagctc aaggtcaagg agctcaagaa cgcccgctc gccatgttct 180  
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ctgaccacat tgccgacccc gtcaacaaca acgcttgggc ctacgccacc aacttcgtcc 300  
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 gctggttttc ggtttggacc atgatgtaaa ctatgggtca atcgac 406

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 <211> 412  
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 <213> Zea mays  
 <223> Clone ID: LIB3069-042-Q1-K1-D11  
 <400> 36804

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 tctccatgga aaggcatctt actttttggc cccccaggga caggaaagac aatgctggca 180  
 aaagcggctg ctactgagt caaaaccacc ttcttcaaca ttccagcatc atcaattgtc 240  
 agcaaattggc gtggagattc agagaagctt gtcaaagtgc tgtttgagct tgctaggcat 300  
 catgcaccat ccacaatatt ccttgatgaa atagatgcta tcatcagcca gcgtggtgaa 360  
 gctcgcagtg agcatgaagc tagtcgtcgc ttgaagactg agctacttat tc 412

<210> 36805  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-042-Q1-K1-D2  
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 catggcgacg tcgtctcgtc ggggtgccctt gctgctgctg tccttgggag tgctgggtgc 180  
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 cgggttccag tcccgacag agtacctgtt cggcaagatc gacatgcagc tgcggctggt 360  
 gccgggcaac 370

<210> 36806  
<211> 376  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-D3

<400> 36806

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ctgatcagga agtacgggct gatgtgctgc aggcagtgtc tccgcagcaa cgccaaggac 180  
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gacagtgtag tagaggcgat gccacaattt taattactgt catttagatg ttcccttcag 300  
aactctgcta ttttaagtccg ccatgtttgt gatggagaac tgaagctttg tttgttatac 360  
tgattatgag ttacct 376

<210> 36807  
<211> 376  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-D4

<400> 36807

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ccatgtccgc caacctgatg tccgacgtcg acgacatcat gcgacgggaa gccgactccg 180  
gcctggacat ccgcttcgtc cacctccccg ccgtggagct cccaccgtc caccacggcc 240  
tcgaggactt catgatgcgc ttcatacagc tccacgcgac gcacgtcaag gaggccgtct 300  
ccggcatgtc gtccccggtc gccgcggctg tgggtggacta cttctgcacc accctgttcg 360  
acgtcgcgcg cgagct 376

<210> 36808  
<211> 370  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-D5

<400> 36808

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accactccct caacaacgcc ttcagcacct acggcgaggt cctcgagtcg aagatcatcc 180  
tggatcggga gacgcagagg tcccgcggct tcggttctgt caccttctcc acggaggacg 240  
cgatgcgcag cgccatcgag ggcatgaacg gcaaggagct cgacggccgc aacatcaccg 300  
ttaacgaggc ccagtcgccg ggcgccgtg gaggcggcgg tggcggtatc ggtggcgggc 360  
gccgtgatgg 370

<210> 36809

<211> 66

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-D7

<400> 36809

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<210> 36810

<211> 163

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-D8

<400> 36810

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<210> 36811

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-C12

<400> 36811

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cgtaccagta ggcaattcga tttgttacca gcaacaagtg atctgattcc cagtgggtcct 180  
gctagagtaa ctttttttac cactgtctgt tgtctatgta tcctttgata ttgtgttgta 240  
ccaatgtgca atttactcta tggactgatg gaacattgtg ccacccatc caccagattt 300  
attgtggcgt tatggaaagc atagaaccgc tgccatattc ttt 343

<210> 36812

<211> 208

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-D9

<400> 36812

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aaggccacca cgcgccatgg atcgccgggc tctaccgcca cctcaattga agggtcaccg 180  
gtctctacgt ggatccggca ctttcttc 208

<210> 36813

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-A8

<400> 36813

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gtaatgtaac ataacggcaa tggcatatgc agctgacct ggtctgctg tatcatctcc 180  
tcccaccggt aaagagaagt tctttctgcc gccatcgcca tggtcagtca gagcttctct 240  
gctatagctg ctggatgtgt tgtgtgttgc gtctgtatcg tccctactcc ctagtttgtt 300

cgacttacat ggaaacctga gaccagaccg ggtatcgagc ggctgcttgc agggatggag 360  
tgctgtaatg 370

<210> 36814  
<211> 240  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-A9

<400> 36814

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cgaacttttag ctctataatc cataaaacat ggctaacac cctaaacgaa tcagcctgac 180  
gaaccacaag catctgacct gctacgtatc cgatccaggc ccctaagtgc aactcactgt 240

<210> 36815  
<211> 373  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-B1

<400> 36815

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tcacgccgat gttgtcacc cctccccgtg cctcgacgtt gctgctcgct ccatttcagt 180  
ttcatctttt ttttttttcc tttggtgttg ttatttaatt ttaccggccc tacgatcgat 240  
tcttgatgta cacgatgatg atgcattggt tgctttggat ccgcgggcgcg gtggtgggta 300  
gtgttctgcc cgcgggtgtc gccatgtact tttaccgcac tacatcttgg ttctatagag 360  
agaggatttg tgt 373

<210> 36816  
<211> 359  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-B10



<400> 36816

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ggttcgtgtg ggtgatgggc gcggcggagg tgaagggcaa gcgggcggtg gatctcaaga 180

tgggatccat cagcggggac aaggtgcagg acaagtacac ccagtactgg tccttcttcc 240

gccggcccaa ggagacggca accacggcgg cgtcggcgga gaaggtgccg gccttcgtgg 300

acaccttcta caacctggtg acggacatct acgagtgggg ctggggccag tcgttccac 359

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<211> 367

<212> DNA

<213> Zea mays

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accaacccat cgcaggccat gggaggttac acgctgcagt cgcagaaggc ctatgcttgt 120

gcaaacggca aaggctcgcc tgatgtggcc gtgaacatga gagctcccc cttccatctc 180

ccagctggac caaagaagaa cccattagat aggatagcac ctgacaccac cgacatatac 240

acaagatecc tgaacggcat cgtcgccgcc gccgctgcat cagtgggcgc tggcgctggt 300

actcacgaa acatcggcgt tgtgccatct ggcatgtcaa ggatgtatta gctgctgctg 360

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<212> DNA

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<223> Clone ID: LIB3069-042-Q1-K1-B12

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gcggcgctgc tgctgctggc ggcggggggc gggacggcgt cggcggcggt gagctgcggc 180

gaggtgacgt cgtcgggtggc gccgtgcctc gggtagcga tgggcagcgc ggcgtcgccc 240  
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 cggcaggcca cctgcaactg cctcaagagc atgactggcc ggctcggcgg cggcgtcagc 360  
 a 361

<210> 36819  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-042-Q1-K1-B2  
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<210> 36820  
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 <213> Zea mays  
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 atcgtcttcc attttttct ctctctggta ttaattcaag caactgtata atgcttttgc 180  
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 caatcaacta acctagactt gtcagctcca gttcatgctg ctttccattc catcagtaat 300  
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373

<210> 36821

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-B4

<400> 36821

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cttcagaag gcaccgctgt ggactcgaga tagcgagagc cttggacgtt ggacctctac 300  
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<210> 36822

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-B5

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acagtggagg tcaccgata agcgcttatg gctatagcgt tactaccatt aattgcttca 180  
tacattaagg cgcattaatt acgggtggga tactactccg agtgaatgat ttcttcgagt 240  
gtgtgagcat gtacttactg ctgtcatgtc atatgacatt gacattattg gtcttgaata 300  
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<210> 36823

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-B6

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gtgcgtcgtg tggatgcatt ggaagctgaa ctaattgtaa caaagaaggc tttgcacgag 180  
gctcttatca ggcaagagga actgctcgcg aacatcgaca gcaaggagat tgccagggct 240  
cagagaaaga agaaaacaat gttctgctac taggacaaca cctgcttccg tgaggagatg 300  
acaaacgcgg cggacccctt ctttttctg acacttgtga atcaacaggt ttccgttgta 360  
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<210> 36824

<211> 371

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-042-Q1-K1-B7

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aaccaccaca agaaggacga ggagcagccc gccggcgagt acgggtactc cgagaccgag 180  
gtggtcaccg ccaccggcga gggcgagtac gagaggtaca agaaggagga gaaggagcac 240  
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gagaagcacg aggcgaagaa ggaccccgag cacgcgcaca ggcacaagat cacggaggag 360  
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<210> 36825

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-B8

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 ggataagcat acccttgtca agcatcttcg aactaaactc tacgaagttg tggctgtgac 180  
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<210> 36826  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-B9

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 tatggtaatg ttttgggggg gggggggggc atgccctact cagactaatc ccacaaatga 240  
 tgccctggaat cggtcagctt acagtcattc tgggagtgat cgatgaaatt aggaattgcc 300  
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<210> 36827  
 <211> 371  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-C1

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 cactggccgc gctcctctcc atggtcgtcg cctctggcgc tcgcgccgag caacagttca 180

agcgcaacgc caccacgcc tcgcaggaca gatccttggt gtcctacagc agtggctggc 240  
 tgccggccaa ggccacctg tacggcgccc ccaccggcg cgccccctc gacaacgggtg 300  
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<223> Clone ID: LIB3069-042-Q1-K1-C10

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 aattgactga cgagcctggt gttgatccat ttgcgcaaag aagggatgag aagaagaaga 180  
 gggttgaaaa gcaagaaaaa aacagactgg ataacttaaa gaaagctgca aaggttggcg 240  
 ctttgccaag tcatatacag cttgctgcca aggcgttgcc catcacagga acaaaagctg 300  
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<223> Clone ID: LIB3069-042-Q1-K1-A7

<400> 36829

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 aagaagcact ggcagaacta tgtcaagaca tggttcaacc agcccgcccg caagcagagg 180  
 cgccgcatcg cacgtcaaaa gaaggctgtg aagatattcc cagcaccaac tgctggccct 240  
 cttcgtccca ttgttcaatg ccagactctc aagtacaaca tgaagtcaag ggctgggaga 300  
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375

<210> 36830

<211> 383

<212> DNA

<213> Zea mays

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cgctctcgtc ggctgggctg gtgtgcctga tggacagcga gaacaggcgc agcgctcctgg 120

tgtgcaaccc catcactaag gactggaaga ggcttcctga tgctcctgct gttgggggca 180

ggacagctga ttacagtggc ctgccttct ccgaggacag aagcactcat cgctacaccg 240

tggccgttgc aaggagcagc caggttccat ccgagtatta ccagtgggag ttcagcatcc 300

acttgtaga ctcggtgtct ggcacctggg cgactccctt cacgnggtg ttgcttgggt 360

ggagaggcgg cgacgagtgc gtc 383

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<223> Clone ID: LIB3069-041-Q1-K1-G7

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caacaattgg agagcaagct tccatgtaac tgcatgtca acatcatcca atcgatcggc 180

tatattcatg tcccgaata ctggattatc tgaacacttt gttgagttcg acttcttgta 240

cccaaccgag ggtatccata gacgcttaga caatggctta cgtattactg caa 293

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<211> 344

<212> DNA

<213> Zea mays

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<400> 36832

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agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaggg cggcagtttt taaggtttaa agtttactta cccgtgattt caagatattt 180

gtttttttat agtgtaacta aatttaaatt aactggcctt ctttttaaat cgttttgact 240

ggaaaaacct tggcgttacc aaatttaatc gctttgaaga aaataccctt ttcgccagtt 300

ggcttttttag cgaaaaggcc cgaacatatg gcctttccaa aaat 344

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<212> DNA

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<223> Clone ID: LIB3069-041-Q1-K1-G9

<400> 36833

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ttgaaaaaaaa aaaaaaaaaa ataatatac acattactga aataaaaaat taatagtaaa 120

aattatattc aatatcaaaa tttatggtct gacaaattac attttaagct tttcctattg 180

<210> 36834

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-H1

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gtggttcctt tagagggcgt gctccgatga aagctggtgc tagaagttta cagtggaaac 180

gggagccttc aggcactgat tcaagtgcag gtgcgaaaac tgacatgagt gtggcatttt 240

cctctgaaca ggtgcttcca cgtgcaacat atgggagtat gttaccgctg agctgatata 300

atgagaacca agtggatatc cactcgtcgc tcttggccct aatggctgaa tatggacagc 360

aagctgagaa gattggtcct tctgctgca ctgtaaaaga aaagtaccaa aaaaatgaaa 420



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449

<210> 36835

<211> 354

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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tcgagaaggg gaagctggtg atcgacgtca agtacttctt cttctacgtg cactcggaga 180

cgcgcgacat ctgcggagag atctcctgtc cggcgaccgg cgacttcgtg ctgtcccacg 240

agcagacgtt gccaggggtc actccaccgg ggtcgtacac gatctacatg aagatggtcg 300

gggacgacga cgaagagctg agctgcatct cgntcggctt cagcattggg ttcg 354

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<211> 222

<212> DNA

<213> Zea mays

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gcaaccatgg gcgcaggggg caccagccac ttatgatacc ccgagtcaca gcactagggc 120

tactgaagcc gatgtgagtg caaggcgatg cagacgcata cttagaacca gggatttgga 180

ccggccgcct ctgagatcaa agttgaatga ggactagatg cg 222

<210> 36837

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-H2

<400> 36837

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 ccagactgat gcattgcggt ttgttttcga tagtgagtta tatgtgcgga ggcgcagtc 180  
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 ctactatgga 250

<210> 36838  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-H5

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 agctagagat gatcttgctt taattttgtg ctgatctctt cctcgtcgtg tacgctcata 180  
 tgcattggggc gacggatttg tctctgatcg ttcccatgcc gctcttgta tcttgacttg 240  
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<210> 36839  
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<223> unsure at all n locations  
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 cggcggcctc gtcttctcat gcatggggcg cgcgtacggg accgcgaaga gcggcgctcg 180  
 cgtggcgctg atgggtgtga tgcggccgga gctcgatcg aagtccatcg tgcccggtgt 240  
 catggctggt gtgctcggt tctacgggct catcatcgcc gtcacatca gcacggggat 300  
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<223> unsure at all n locations  
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tcggcttaag cttcaagatg aagtccttgt ttcggacact gatagattga gcatgactca 180  
ctctaattgtt aaaaagctgc aaaggcattt ccaagctgac acgtatcctt ggatccagcg 240  
attgaagcaa caagagctgg ctattcagag acgtctttta aggtttgtta gaatagtgga 300  
ggcattggag aatcgggggt accgctgtcc ttaacaaaag gaggaagctg acttgtatga 360  
aagattgggt gctatattaa agcggctaen aggacataac gctgatcttt ctaagagggt 420  
caatacac 428

<210> 36841  
<211> 429  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-H9

<400> 36841

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agctcgtcat cgtcggcgat ggtggaactg gtaaaactac atttgtgaag aggcatctca 180  
ctggagagtt tgagaagaaa tatgaaccaa ccattggtgt ggaagtcat ccgttggatt 240  
tcaccactaa cttgggtaag atcaagttct actgctggga taccggaagg caagagaagt 300  
ttggtggcct caaggatgga tactatatcc atggccagtg tgcgatcatc aatgttgatg 360  
taacctcaag gcttacttac aagaatgttc ctacgtggca tatggacctg tgcagggtct 420  
gtgaaaaca 429

<210> 36842

<211> 274  
 <212> DNA  
 <213> Zea mays  
  
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 cagcggcccc gccatcatcc tcggcagctt ccagcagcag aactacctgg tggagtacga 180  
 cctggagaag gagaggctgg ggttccgacg gcagtcatgc acgtcgtcgc cgtcgtgagg 240  
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gcaaaaagtc tagcagtagt cgttctatga tgtatgaagc tccccttggc tacagcattg 360  
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<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-A12

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<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-A2

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gcgggaggcc gctgccggcg ggtggcagag cgcgcacgcc acgttctacg gcggcgggga 240  
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cacgagcacg gcggcgctga gcacggcgct gttcaacgac ggcgcggcgt gcgggtcctg 360  
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<210> 36847  
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<213> Zea mays  
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 <212> DNA  
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<223> Clone ID: LIB3069-042-Q1-K1-A4

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<212> DNA  
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 aataaaaaac taaattt 377

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<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-F11

<400> 36853

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<210> 36854

<211> 240

<212> DNA

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tcagcttgct cttccgtcta cctgactccc gcttcaccct ctccctcacc cttgctcgg 180

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<210> 36855

<211> 411



<212> DNA  
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 <223> unsure at all n locations  
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 <213> Zea mays  
  
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<210> 36858  
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<212> DNA  
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<223> Clone ID: LIB3069-041-Q1-K1-F5

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<212> DNA  
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<400> 36859

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gcatttgctc gctgttcaag ctacacatga aacctgtgtt gtattctgta gttcagtatg 180  
cagagtttat aaccttgaga tacaagcatt ttatggtaag gacagcatta gttccggtag 240  
aactatattc tgtgctagaa cttgctgacg caagtgtaac tgctgatctt gttcattcgg 300  
ttgcacagaa atcgaaaggg attaaaggag atcagcttaa atctctacat tgaacgccat 360  
gctgaatgtg taaagtttgt 380

<210> 36860  
<211> 206  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-F7

<400> 36860

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ccggtggcaa agtcctaatac agcgactact gtgagaatcc tggaaaacca tcagaagaat 120  
ttgctgcgta cattaagcag agaggctatg accttcacga cgtgaaggct tatggacaga 180  
tgctcgaaga tgctgggttt cataat 206

<210> 36861  
<211> 356  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-F8

<400> 36861

cggacgcgtg ggtctgcctt ggctacttca tattccgtaa tcagcttttt aatgtatatg 60  
cgccaaagta tgatactgga gggaaatttt ggcccgttgt gcacaacaca acgatattct 120  
ctctgggtgt tctgcatata attgctattg gagtatttgg gataaagaag cttccccttg 180  
cgttcagttt gctacttccc ctaccaacgc tgaccttct gttcaacgaa ttctgccgga 240  
acagatttct gcctatcttt gaagcatact ctaccgagtc tttgctaaag aaagatagag 300  
aagaacagag caaacagat atggccgagt tcttcagtaa tcttgtaaca gcttac 356

<210> 36862  
<211> 393  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-G1

<400> 36862

cccacgcgta cggatctcga tcgcgagcac caactgttcg tcgttatgtt cgacaccgac 60  
gggtgctcga ctgcgcctgc atatgogtct ctctgcctgc caggctcaag gggtccacgc 120

tcgccaccaa cggcgtgata acggccgggt ctgacgagtg ggccatctac ggcggtaccg 180  
 ggggtgtttgc catggctagg ggcgtcataa ggagaaggta tctcgacgac agggcccgcg 240  
 ggaacactga tgagctcaac atggatgtct tctgccggac gtttggtca cagtcacagc 300  
 tgcaagataa gatgcagggt catgagcagg ggcagggtc tagcgtcacc aagattggac 360  
 tatggtgtgg accgggaggg tcggcacagg aca 393

<210> 36863  
 <211> 366  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-G10

<400> 36863

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 tttgccaaagt ctgttaaaaa aactatgtaa aagtctgaaa tgaatttgtg gtatgtttga 120  
 ttatatattgt cagtgtagtt aaagttacta gaagatttgc tcttcacatc cttgattggc 180  
 tagtggttta tttaccagtt tgtgacattc aaagattcgt ttctgatcat gaaggttatt 240  
 tgtgcattaa gaatcttcta aaacttaata cattgattgg ttgatgagta actgattcgc 300  
 aatgcaacgg gcacaagacc ttttttttaa aaaaggtaac ttatgctatc ttatttgggt 360  
 aaaaat 366

<210> 36864  
 <211> 287  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-G11

<400> 36864

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 atacattcaa tacatccttc gaaattttgc gagtttgta ccaaaactac ttcaaactct 120  
 aatatgaatc tacgctatat tcaataatat ttactctct caattaatgt actaccaa 180  
 atcattataa gatcctccta atgttagaag ataccagtct aacctcttgc gttgctcatc 240  
 tcacaattac ccactaaagg gagctgtaca ttcaaagtga agctcta 287

<210> 36865  
<211> 453  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-041-Q1-K1-G2

<400> 36865

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gatgaccggt gctacttttaa atactcatat accaaaggct ggtgagccgt atgctgatct 120  
aagcgaccaa tatgctgtac tggatatctta tcgctgtaat tacacagaat cgaaactttt 180  
tttcaagcaa gcaacaagtt ggcgaccctc tgcagccagc gatcttatga tctcagtatc 240  
atccgaactg tctttacgga atcctagtct tgggtgctcg gtctctcaac tccccgtgca 300  
gatactaaca ctcgaagcta ctaatatgac atccgaaaac cttacattaa ctgtccttgc 360  
tctgaagca tctggttctt cttcagtttt atccttgaac tcatctncaa ccaccccaaa 420  
tggttctttt gatggtgtta atgagtcac aaa 453

<210> 36866  
<211> 454  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-G3

<400> 36866

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aaaggcacac catatacaca gcaatcttat aaagtcagtg attcctttcc atttaagtgg 120  
ataaacaaga aatggaaaga aggttttcat gtgactgcaa tggcaacatc aggcaatcga 180  
tggtctatag tcatgtcccg cagtgtgga ttttctgagc aggttgtgga gttggacttc 240  
ttgtacccga gcgagggcat ccatagacgc tgggacaatg gcttccgtat tactgcaatg 300  
gctgccacga tggatcagtc tgcgctgac ctaagcaagc caaggcgtcg cccaagagac 360  
gagacacaag agactctgag gactacacag tttcccagtc aacatgtcaa ggacaagtgg 420  
gccagaatc tctaccttgc ttggatatgc tatg 454

<210> 36867  
 <211> 445  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-041-Q1-K1-E9  
  
 <400> 36867  
  
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 gcctcgtggc tcgcatacag ggagtcacgg tcctggtcgg taacgcagac gccttggttca 120  
 ccatggtggt cgaaaccgac aggctaaagg gctccacgct cgatcatcaac ggaatggtca 180  
 cggatgggtc agacgaatgg gcgatctacg gcggaaccgg ggtgttcgcc atggccaccg 240  
 gtgtcatgaa gagaagaaac cttgccgccg gtagcaacga cgggaactct gacgagcttg 300  
 ccctggaagt tttctgcccc gtgtttggcg catcacagca accaattagc aagcagcagg 360  
 actccatctc ctccgtcacc aagatcggac tatggggcgg acagggaggg tcggcacagg 420  
 acatcacggc agagcagcca ccacg 445

<210> 36868  
 <211> 260  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-041-Q1-K1-G5  
  
 <400> 36868  
  
 cagccttgta ccaaactatc gagagcatcc aatctagatc tacactatat gcaggtaacg 60  
 tgtgatgtct tgatgattat cttaccttca ttgaatctgt attgatagat gctgatctgc 120  
 gatcgaagcc aaaggatgta aatgtgtacc taggattcca tgtgaagggt aacgtgcctg 180  
 atatgtaacc tgtaaaaacg tactatcaaa tatataccta atcaggacaa atacctgaaa 240  
 acaaacaaaa acatggcata 260

<210> 36869  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-041-Q1-K1-D3  
  
 <400> 36869

cccacgcgtc cgagcaggag ctggcaaggg agtgtgatta tgtgctagaa gcaagtaacc 60  
 ggaagcgtta caaagaattg ctatgtgata gtgatgggta taatgtccca aaggtcattg 120  
 atcaattgtc tagcaggaaa gtgctgacct cggagtttgt ttccaggcat tcctatcgat 180  
 aagggtggctc agttaagtca ggaaacccgc aattatgttg gttgtaaact gcttgagctt 240  
 acaataaagg agttgcttgt cttcagattc atgcagacgg atccaaattg gagtaattgt 300  
 ctgtatgatg atgctacaag gaaattcaat ctgatagatt ttggagcaga ccgtgatattt 360  
 gcataacact tctgagatga ttatctacga atggtaggtg cctgtgcaaa tagagatcgg 420  
 a 421

<210> 36870  
 <211> 256  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-041-Q1-K1-D4  
 <400> 36870

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 ggagagcggg atgatctacg ccagctccaa ggagagggtc aagcggggagc tggacgatat 120  
 tcaagtggag ctacagtcca cctactatcg tgtggttgga catgacacaa ttccagggtta 180  
 accctgcata tgatgctcag agaataattg cctatgttca aacactgatg tgcgtcacag 240  
 acccaaattg tgctgc 256

<210> 36871  
 <211> 374  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-041-Q1-K1-D6  
 <400> 36871

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 ggaaagctag tgagaagcag gacgattcca ttctattgac tgatgctttg gcagggaagt 120  
 ttgagaaaga cctttcttca tgggaaccgg cacatgtag tttggttcaa attaacaaaa 180  
 cccctcttga gcaaagcaca atagctggtg aacaaactcc aaaatcagta gttgcaaagt 240

ctttctcaag tagtaatcaa agacatgggt atagttcaac aaaccttgga acaaccatga 300  
 tccattctgg cacacaaggg tattatggaa tgcaaaattc ccatgcagca tacacaagcc 360  
 aacattctct tact 374

<210> 36872  
 <211> 315  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-D7

<400> 36872

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 aagcgaaccg caaaggcccg gctccccctg ctaacggggg taccggcaag caacggcaac 120  
 ccaccgtaa cgccccccc ccctcggacc ccaatccgtc cggcggactt ccgccagtc 180  
 ccggtacggg gggggccggg gaccctacg gcacaggggc caaggctaca cgccccgac 240  
 cgctactgt gcccgggcg ggtacggcaa cgtcgtgcac gtcgcgcacg aggtcggcga 300  
 cgagagggt tacta 315

<210> 36873  
 <211> 162  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-D8

<400> 36873

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 ggaacggtaa agcgagcctt gagcctacta aacaccatac cgcaagacac caccatcaga 120  
 ccagtacgag ccgaccaacg tgtgtctcta taccgtacat ca 162

<210> 36874  
 <211> 234  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-D9

<400> 36874



gaactaccca ctcgacccac tcatccactc ctcatttcat atacaacatt tcaaaatagg 60  
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 ttacatctaa atccaaccac ctgatctcac tcatattcat ttaacatcat gaccatcatc 180  
 cactacctca acaactacta caatcctctt ttctacttca atcacaatta tact 234

<210> 36875  
 <211> 441  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-E1

<400> 36875

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 ggagggacgt acccttgacc cacacattga ggagcaattt ggcagtggac ggttgctggc 180  
 atgcatttct tcccgcctg gacagtgtgg ccgtgctgat ggttacattc ttgagggtaa 240  
 agagcttgag ttctacatga agaagctaca gaggaagaag ggcaagagcg ctgtagctta 300  
 tagcattctc atggattggc ttgcaccgaa atgtgtgtcc tgatgagtag actttttttg 360  
 gttagtcgtc tcaagttcag agcgttatgc catgttttca gacctgatta gtacactctt 420  
 ttctaaaagc gattgagctc t 441

<210> 36876  
 <211> 414  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-041-Q1-K1-E10

<400> 36876

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 ccgcgtggc ggtggccgcg ccctcgcgcc gcggcacctt cgccgtggtc aggtccgcca 180  
 aggtcgaccg ctgccaggag cccgccacgc tagcagcaac cgaggccagg cccgccgacg 240

acggacgccg cgccgtcatg ctgcgggctg ctgcggcggc cgtggcagcc atcggcgggcg 300  
 ccggcgccgc catggcgggc cccaagaacg ggacccccga ggcgaagaag aagtacggcg 360  
 ccatctgcgt caccatgccc accgncaagg tctgccacaa ctgagcacgc ccgc 414

<210> 36877  
 <211> 443  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-E11

<400> 36877

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 gaacaggcgc cagagtggga tccagcagtt gctggctgcg gagcaggagg ctacagaaat 180  
 tgtgaatgcc gctagagctg ccaagtcagc gaggctcagg caagcaaaag aggaggctga 240  
 gcgggaaata gccgaatacc gtgccagat ggaggctgag tttcagagga aggttgcaga 300  
 gagcagcggc gactccggtg caaacgtcaa gcgtctcgag gaagaaacgg cggcgaagat 360  
 cgagcaactc acccagcagg ccgcaagcat ctccccggat gtcattcaga tgcttctgcg 420  
 gcatgtcacc accgtcaaga act 443

<210> 36878  
 <211> 439  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-E12

<400> 36878

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 cgcgcgggcag tgggcggaga cgacgaccga tcgatcagct gaaggaatgt cgtcggccca 180  
 aatcgtgccg gcggaccatg tgtgctatgt gactgcaac ttctgcaaca cagttctcgc 240  
 ggtgagtgtc ccggggaaca gcatgctcag catggtgaca gttcgggtgtg ggcactgcac 300  
 aaatctactg tcagtgaatc tgagagcact catgcactca gtcccagaac aggatcagct 360

tcagcaggaa gacatcaggg tccatggcac gttgctgag catcatcagt gtggcgccgg 420  
gcaccatctg gagctgggc 439

<210> 36879  
<211> 450  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-041-Q1-K1-E2

<400> 36879

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gcangacgcc ttcgcgcagt gcatcgccgg cctcctcagc gtcgtggcgc aggagacgac 120  
gctcagcgtc gagtgcgccg accagggcgt gctcctcacg tncatcaagt ctggcagcta 180  
cgccagcggg gcgacggcg acagccggcg cgggttcgtc gacgtcgcc gcctctacgc 240  
cgacgaggag agggacttnc tcgtcacgt gcgcgtncgg ccgtcacgcg cgaccatcgc 300  
gctcgtncgg ncgagctgca cctaccgga cggggcacc acggagatgg tgcgggtggg 360  
gggcgacccg gtgacgtgc tccgcgcggg gagcccggtg agcgcgccga tgtccctgca 420  
ngtggagcgc gaggggcacc gcgtncacgc 450

<210> 36880  
<211> 397  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-E3

<400> 36880

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taagaagaag agattgcagt agcatcctgc tgcggcgata acagctcttg actcccgga 180  
tcgtggctaa cacattgttc gatcgtaaca tctttgataa cttatttatg cggttatgta 240  
ccaggttgat gttgaaacat tagtaacaat gccagggga ctttttggcc tcagatagtc 300  
agataccctg tagggttgta atttgtagga ttaggaaca agagcaacta atgctcagct 360  
gacagactgc tgcgagatag aaattgtatc tcaagag 397

<210> 36881  
 <211> 264  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-041-Q1-K1-E4  
  
 <400> 36881  
  
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 aaaacattga ttgggagAAC attagtacat gaatacttga tcttcatagg tcagctttca 180  
 tgcattgtga cacatggaaa atacatagtc ttagggctag cttatttatg cggttatgta 240  
 ccacgatgat gttgaatcat tagt 264

<210> 36882  
 <211> 385  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-041-Q1-K1-E5  
  
 <400> 36882  
  
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 ggcctacggc gccgggggcg ggtacggcaa cgtcgtccac gtcgcgcacg aggtcggcga 240  
 cgagaggcct tactacggcg gggcgggcgg cggctctggt ggcgcctacg gaggcggtgg 300  
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<210> 36883  
 <211> 444  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-041-Q1-K1-E6  
  
 <400> 36883

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ggattccaag gaagcttaaa acataatgga accagttaca ccccgctcttc aacatgcaaa 120  
ttggggccggt ggtctttctg gtggcaagat aatccttcta caaatggagc ttattacgag 180  
caccgatgta gtcaagaatc tctgcaagaa aatggcttcc ccttttggtg ctcttttctg 240  
agcaaagcct tgaattcaat atgtagcctt gaagaacatt aatctgatag ttcaaaagaa 300  
gcctacaata ctgcgtcatg agattaaagg tttcttttgc aagtacaatg accctatata 360  
tgtaaatgat gaaaagctgg aagatatgat aaagcttgcc tcagatcgaa atatagatca 420  
agtgtctctt aaattcaagg agta 444

<210> 36884  
<211> 352  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-041-Q1-K1-E8  
<400> 36884

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gaatttgttt aggggatgct gtgtacagtg tactgtcttt taccagtcac ggagtgtttt 120  
tgttgtgttg tcacagaact acatacgatc tggccagttg atctcttagt tccattgggc 180  
atggttggtg ttcggtaaat agaaaaggac atcactgtcc atatacagca aatgtgcact 240  
aattacgctt taccgaagta ttgatggaaa tctaactact ttctaaaggc cctcgatatgt 300  
gcaagattgc ttattattat tacttaccac gactttatta tatgatcaca gt 352

<210> 36885  
<211> 390  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-041-Q1-K1-D12  
<400> 36885

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gctgctaagc gaaagtaggc agggagcgcg gacttggttg gagttgagca caccaacttt 120  
tgctgtgggg gggctctggt tctgtgttga tgtggagtaa tgcagtacca tcacctcagc 180

tagtattaag tgtagatagg tgtggatgat tttggtgaat ggtggttatgg acggaaatgc 240  
 tgcaggctga gcgacctagt aacctatgcc atgtagtggc atctaaatta gcctgggatt 300  
 gtgtatgcgt aaaaagaacg cctaagactt aaccatgtta ttatgtcagc ttggtacatg 360  
 gtgataaaaa gaatctgacc atttcatgtc 390

<210> 36886  
 <211> 160  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-B3

<400> 36886

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 ggctgcctgc gttctggtgc cagcatctgg ggggtgttga ttactgtatc gttatttggt 120  
 tccggtttgt tggccggatt tttacaattg cttatctggt 160

<210> 36887  
 <211> 333  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-B4

<400> 36887

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 aaatatccgg tcctgtatc cgtatccgtc ccgtttctaa ctatccgtat ccgatcccga 180  
 atccgtttta aatacattag ggtaggatac gagatgagct actatccgtc ccgtatccgc 240  
 cgttttcacc cctacgatta atgatgttgg cgtaggagta gtttatttat taaacgtgca 300  
 gtgcagctat gggcgctcgg gcgcctttcg ccg 333

<210> 36888  
 <211> 289  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-B5

<400> 36888

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cattctgcca tggaaactga agtaacagaa ttaacagaac agcataatga aaacaaagcg 180

acagaggag caagcaaaag aagcggacga aagaaggcgt catcatcctt ggcgacgata 240

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gatgtgctgc aagcagtgtt ttcgcagcaa tgccaagac attggcttca tcaagtaccg 180

ctgaaatcag gtgggaatgg accatgttgt agaagcgaag ttgtagtttt atttccagta 240

atttaagatg tttggtcaa 259

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tactgtcctt caatctacaa tttcgtaact atgccaacca cattgtcttc aaacaaaacc 180

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<223> unsure at all n locations  
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<223> Clone ID: LIB3069-041-Q1-K1-C11

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<213> Zea mays

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<400> 36893

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agcgaaagca gcaagaagca aagcaatgga gaaccctgcg agtgtgctag ttctaccage 180

tcatttcacc aaactcacct tctgaaacct gtacatccgc cgggccgggc cgtgcagcag 240

ggagataacc gaggagggca ggtgcgacct ggacaggaga tacttgagta acttctcccg 300

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<400> 36894

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tgtttcacca cattaactgc attgcttgaa agatgcctgt catccaaaag aaactgcata 180

tctgacactc attgatcgac ttgcct 206

<210> 36895

<211> 348

<212> DNA

<213> Zea mays

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<400> 36895

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gctgctcgat ccggtagtgg cagtggcttt gtgagacagt cgagtcgatt gtggtttccc 180

ctcctccgcc atgtgcgtgt agtggatgat gatgcaggaa taaacggtgt ccctggatcc 240

agaactcacg gttcgatcca tccagtttat ctcatgcttg tgtatctcta tgtatgcatt 300  
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acaggccaac ttngnaggtt gaagaggaaa tcgaatacag gaactaccaa acatgccagt 360  
acaacactac tncgcaggga agctttacag tggctcaaga tatcatgagg acgatgctag 420  
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ttcttactga agtggcttga acgctttcct caatacaagg aacgcgaatt ttatttgaca 240  
ggggagagtt atgctggcca ctatgctcct caactggctc aagccattaa aaggcaccat 300  
gaggctactg gtgacaaatc aattaatcta aagggtata tggtaagaaa tgctctcact 360  
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<223> Clone ID: LIB3069-041-Q1-K1-C8

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tgctacatcg aatctaaatt ccacttcaca tttgcacatt catgctctac ttctattaca 180  
accggtatga tccatccatt acactactat gttctttact gcatctacta atcttcatcc 240  
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cgtgtacgac atggtgaaca gccccagcag ctaccgggttc agcaccaacc tcatggcctg 240  
ctacggcgcc tgcggaggca agtacaacta ccagaactgc gcgcggtgca gcatgcccag 300  
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<211> 478  
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<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-B2

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tcatggcctg cgcacagact ggatccggaa aaaccgccgc attctgtttt ccaatcatca 360  
gtgggatctt gaagtcacca aagccacacc agaggtcacg gagtacaagg accgcttgcc 420  
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<223> Clone ID: LIB3069-041-Q1-K1-D10

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 gccgagctca tctcacctt cctcttcgtc ttgcgcggcg ttggctccgc catggcaaca 180  
 gggaagctgg ccggcggcgg cggggacacg gtagtgggcc tgacggcggg ggcgctggcg 240  
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cgctggagcg ggcgtncatc gagcagtggc tgcagaccga ggcgcanagc ttcgacgcgc 360  
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<223> Clone ID: LIB3069-041-Q1-K1-A2

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<212> DNA  
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 tcagagacta gtgcagcact agagtttgct atcaatacac tcgaggtaga gaatgtgctt 360  
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<223> Clone ID: LIB3069-041-Q1-K1-A8

<400> 36914

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<223> unsure at all n locations

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<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-B1

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<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-B10

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<210> 36918

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-B11

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-H6

<400> 36919

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ggcatttgtc gatatggtag atgccagtgg ctatgcctat gccgtgatgc catcggccaa 120

gggtcttgtg ccagagacgc acccccactt catcggcacc tactggggcg cagtcagcac 180

cgccttctgt gctgagattg ttgagtcgc agatgcctac ctctttgcag gccccatttt 240

caatgactac agctctgttg gctactcatt cctcctcaag aaggaaaagg ccatcatcgt 300  
ccagcctgag cgtgtgatag tggggaatgg gccggcattc ggatgtgtga tgatgaaaga 360  
gttcttgtct gaattggc 378

<210> 36920  
<211> 398  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-B12

<400> 36920

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gaggggtatta tatcactgag tgatattttc aagttcttgc tgagcttgtg ataagagaag 180  
aggagcatga cggacatttg tttgtgatca atagtaagaa aacagcaggg tatgtgaagc 240  
aagctgccat ggatctcgca tttcccttgc ccctcgggc tttggtcaag taaggcaaga 300  
ttgaagggtg cgggctttgt ctttgctgat aatggctgtt ggaattcatg ggctgtaaaa 360  
gtcttttttt acccttttgt tttcggttta accatttt 398

<210> 36921  
<211> 359  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-G12

<400> 36921

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gttttgaca ccgtaggggt agggctacat tatttccaag agatcgatca tagacagagc 180  
acgacatgtt ggggcggcgg ccgacagccc ggcactaagg acgacgacat cgacgacgac 240  
ggaagccttg ggcattgtca tgtccagcat gatgcagcat gcccagatc cagaagaagg 300  
ggttgatcag atgttgcct tggcgacttc ggggagatgc accgggtagc ggtcgatgc 359

<210> 36922

<211> 287  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-040-Q1-K1-G2  
  
 <400> 36922  
  
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 gacgggggac aaaaagggtg ggaggctaata tggaacaagt atcacattga gctggaccct 120  
 caacttgaag ctcttgttgg aaggcatagt agaaaaccct ggtcaaagtt catgaatgct 180  
 gataaccaac atctagtatc acctgaggcc atagattttc tcgataagct cctgcgctat 240  
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<210> 36923  
 <211> 425  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-040-Q1-K1-G3  
  
 <400> 36923  
  
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 gaacccttac aaccccgaca tcctcaacga cctcgagaag ttcgtcaatg agcaggtctc 180  
 atctcagaca tataacttgg atgcaaactc cagccttctt cgcttgtacc aagttgagcc 240  
 agaaaggatg agcatacaga ttgtggccca catactgatt aaggctctca tggcaatgcc 300  
 agcccctgac ttcagtttgt gcttattctt aatccctgaa catgtgcaaa tggaggagca 360  
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<210> 36924  
 <211> 387  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-040-Q1-K1-G4  
  
 <400> 36924

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gtccttggaa cagatgggtt gaatgcttat ttgaacaagt atcacattga gctggaccct 120  
caacttgaag ctcttgttgg aaggcatagt agaaaaccct ggtcaaagtt catgaatgct 180  
gataaccaac atctagtatc acctgaggcc atagattttc tcgataagct cctgcgctat 240  
gatcaccaag ataggctcac tgcacgtgaa gctatggcac atnccactt nctncaagtc 300  
agagctgtgg agaacagtag aacgagaccc acataatcgn tgtctacacc ctcgaaatga 360  
aaagtgtgct aatttctgga acatcat 387

<210> 36925  
<211> 190  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-040-Q1-K1-G5  
<400> 36925

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gacgagatgg acgccgccga aggcggtttt ttgggtcgccg ttttttgaat gctggttgcc 120  
ttggccattt tccccttctt cttttggggc cgccgttcca atgccgcaca ccgccgttaa 180  
cacaccgttc 190

<210> 36926  
<211> 288  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-040-Q1-K1-G6  
<400> 36926

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ctgcagctgc ggggccgtcg gcgacggagg cagggcacccg gcggccagggt gcacaaggct 120  
cgggcaatgt ggggcaagtg aaggacggga atctggagcg ggcgctgtcg atcatggagc 180  
gcaagatgcg gtccagcggc atggagcgcc tcatacgggc gcgcacccat taccacgtca 240  
aggactctga gaagcgcgtg ctgcgcgta aagggttat gcaacgcg 288

<210> 36927  
 <211> 418  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-040-Q1-K1-G7  
  
 <400> 36927  
  
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 gcagggccct gtccttcgcc atcgccgact tttcgcac cggtcacctt cgccttcgc 180  
 ccgagctgct catccagccg catccgcacc acgacctcgt cgcctttccc tctctccctc 240  
 aactcgtgag ccgtttgcaa agtgaaggat attatggagg cgtccggctg ctgatggcta 300  
 tctgtaaagt tttctacaac tattgtgttc aaaataacat cagtttaaaa gctgaaaatt 360  
 tcaccttatc atacgatact aatattcctc ggcagtctgg gctgtctggg tcgagcgc 418

<210> 36928  
 <211> 357  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-040-Q1-K1-G8  
  
 <400> 36928  
  
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 gttgatcagg cggaggaata atgggtcaac tgacaactct gggtcggtgg atttgtagtt 180  
 gggttggtt ttttagttgt agaacggtgt tgccccctc ctagagaggg atgaacacat 240  
 tatgcatgcg atgtgtcagt tcggtcgggtg ctatgctcgt tgggatttga ttgtcgaaa 300  
 ttaaacadtg gtgatgaatg tgtaccctcc ctaaaaaata aagtcctaaa atgaaaa 357

<210> 36929  
 <211> 383  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-040-Q1-K1-G9

<400> 36929

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aagccccctc ctccggccgtg gccggcgccgg tggcccgatg tgctacttcc cggacggcac 180

tcttcagggc atacagggag ccaggcatgc tcaattcggc atatccttat cagatctcca 240

cctgaacaag ctgcagccgg gcctgtcacc gcacgggctc caccgncage tgcaccacgg 300

cgtgcaggtg caggtgcagc agccgaggat cgcgcncggg ctcatcgteg gcggccaccc 360

ggcggcccca gacgacgtct cgt 383

<210> 36930

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-H1

<400> 36930

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aagcacaagg tgattgttct gtgagcacia ggtaatcaat ttgggaggag aggaatataa 180

tggcgagca cagtacatac ttttggtttt tcccttctag tatatatatta cacacacgta 240

tacataaata catacatact atatgatgga cttgtcatta gacagcctat gtgaaagctg 300

tgtgtggcga tggattgggt gttgcccttg tggttttgta ccctaactat ttgtgttgat 360

atatatggtg atactttttg ttc 383

<210> 36931

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-040-Q1-K1-H10

<400> 36931

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aaataaagaa tatgaactca ttttctgcga taaatagggc aatcgattat gagatctccc 120



ggcagattct gctccataaa gaaggccagg ctgatcaaat tgtacaagaa accgcctgt 180  
 gggatgaatc ttctcagaaa actttttacaa tgcgaaaaaa ggagggactt gcgactata 240  
 gatattttcc agaacctgat ctctctgaag tagttatcac tagtgactat attaataaaa 300  
 tcagcaagtc aatgccggag ctccagaag caaagcgtag gcgttatgag aatatgggac 360  
 tcagcatgca agatgttctg ntcttgcta atgatgataa tattgggtcat ttctttgatt 420  
 ctactct 427

<210> 36932  
 <211> 399  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-H11

<400> 36932

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 atgaaatctc cccgcagatt ctgctacata aagaaagcca ggctgatcaa attgtacaag 120  
 aaacccgact gtgggatgaa tcttctcaga aaacttttac aatgcgaaaa aatgatggac 180  
 ttgccgacta tagatatttt ccagaacctg atcttctga agtagttatc actagtact 240  
 atattaatga aatcagcaag tcaatgccgg agcttcaga agcaaagcgt atgcgttatg 300  
 agaatatggg acttagcatg caagatgttc tgttcttgc taatgatgat aatattggtc 360  
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<210> 36933  
 <211> 293  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-H2

<400> 36933

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 catcacaatg ggacctctgt ctccgtcag gggatccct tcgccagcat tctacaattc 180  
 tgctgcgtca ctgctgatgc tgtccaagtc gctcttctg tactgctgaa cacagacct 240

tacttgatcg gatacatgct ctctgaggga tttttcatta gacaggccct gtg 293

<210> 36934

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-H3

<400> 36934

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gcttcttctc cggcgaaggc ggagctcggt acggggattc cgcacccgtt aatcggtccc 120  
accggatccc tcgccgcctc ccacggggccg ggccgcgcgc tggcgcgcgc gcaggccgag 180  
atgcggaaga ggatggagag cgtcgacgat ctgatcgagg aggcaaagct gcgcaccgtc 240  
tgggtgggcgc tctgcatctt cgccgtcttc tacttctca cgcatacaag taaatcaatg 300  
tggacaaatg tgcccatgtc aatccttata cttgcatttc tgcgatatct ctcccttcaaa 360  
ggggagttcc cgtggaggga acaccctgta cgtaagcaga cacatttgtc ttaagcctta 420  
aagaga 426

<210> 36935

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-H4

<400> 36935

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gcgcgggcgc cggcgcgtgt cctcgtcttg gccaccatcg ccgccgtcgt ggtgggtgca 180  
gcggagcccc aggtgccgtg ctacttcgtg ttccgggact ccctcgtgga caacggcaac 240  
aacaacgaca tcgcgtcgtg ggccggggcc aactaccgc cctacggcat cgacttcgcc 300  
gccggcccca ccggccgttt cagcaatggc ctcaccaccg tcgacgtat atctcggtt 360  
ctgggcttcg acgattacat ccccgctat gctggcgcga g 401

<210> 36936  
 <211> 402  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-H5

<400> 36936

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 gtcaccgttc cgcaacaagc acaaagtgat tgttctgtga gcacaaggta attaatttgg 180  
 gaagagaaga atattatggc gcaacacaat tcatactttt gggttttccc ttttagaata 240  
 tatttacaca cacttttctt taattccttc cttcctatct tagatgacct tgcctttaac 300  
 caccattttt aaagcttttt ttgccaat gattggtggt tggccctttg ggtttggacc 360  
 ctaactatct ggggtgatat atattgggaa actttttggt cc 402

<210> 36937  
 <211> 431  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-G11

<400> 36937

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 tcaagattgg tccactagca gaattgatgg acggagaagt aacattagag gctggtgcta 180  
 atgttaggaa gatacgagtc tgacgtcttg agttgctcat caaacagtga ccgactaaag 240  
 ggagcttttag attcaaggag aagctctggt catactgatg aagtaaagaa agaactggag 300  
 acgtacaaag aagttcccat ccagactaca aaagaaccaa caattgacga ccagcgactg 360  
 gaaagtgcac ggcttcaggt tactgagaag cacacacctt gtctggtgga tcaggcacta 420  
 cagcatcaac a 431

<210> 36938  
 <211> 274  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-E4

<400> 36938

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ctctgcctga gtttgcagga ggcagagaag catctttcag acatggtgaa ctcaaatct 180  
ctgactgcga agatcgacag gccgatggga gttgtgagct tccgagtagt tcaggactgc 240  
aacggcacac ttaactcgtg ggctacaaac ctgc 274

<210> 36939

<211> 221

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-E6

<400> 36939

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gcgcgccaa gacgttctac gaccggcaa agcgccgccg cgtgctgtgg ggatgggtcg 120  
gcgagacaga ctcggagcgc gcggacgtgt ccaagggatg ggcgtcgctg caggggtatac 180  
cccggacggt gctactggac accaagaccg ggtagcaacc t 221

<210> 36940

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-E7

<400> 36940

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tcgagacaga ctcgtagcgc tcggacgtgt ccaatgtatg ggcgtcgctg cagggtatcc 180  
ctcggacggt gctactggac accatgacgg gtatcaacct gcttcagtgg cccgtatacg 240  
atgttgagac tctgagcacc agctgcacc 269

<210> 36941  
<211> 428  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-E9

<400> 36941

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gcggaacagc ctgcgttgct cgcccacacg acgccacgca tgcaggagga gccagggcgt 120  
cgtcccgtgc cgccgttcgc gggcgtggac ctccgccgcc ccaagggcta ccccgtggc 180  
ggttgccaa gaggagaggc cggcgccggg cggcgacccg tgcccgcggt gcgggtcgcg 240  
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gtcgtgccgc cgctactgga ccaagggcgg gtccctccgc aacgtccccg tcgggggcgg 360  
caccgcgaag agcagcagca gctcctcatc atcctcggcg gcggcggcgg cgacgacgac 420  
gacgacgt 428

<210> 36942  
<211> 438  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-F1

<400> 36942

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caagccaagg taaacaatga tgttctttta ttgcttatga gaaagtttac tgcattcaag 120  
gggttgttca atttattgag tcatgcacct tggattatat tggctgagaa tgatttgtat 180  
gctggtgttt acatggaact gccttaactt ctctggttat acacacacaa gcttataaag 240  
aacaatcgat ttcatattct tgtggcacia ggctgtttt cttggttgaa ctgctacaaa 300  
tatatggtga atatagcata tgagccttga agcttcattg aaaggtattg cccttctctt 360  
tatctgcttg tgcctgacat ttttctatgc agtttcatgg tgtaatttat agctgctgga 420  
tgagtgttat tttggaca 438

<210> 36943  
<211> 295

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-040-Q1-K1-F10  
  
 <400> 36943  
  
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 gcccttctga ggtacaatgc cctatttgct tggaaagacc attgtgcca cagatcacat 180  
 catgcggaacc catatattgc tttccatgca ttttacgtta tctaattgatg ggcaaagatg 240  
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<210> 36944  
 <211> 431  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-040-Q1-K1-F11  
  
 <400> 36944  
  
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 cgacccttgg ggctccgtt gtgctctacc tgtgccccgc ttagacgagg agctgcggcg 120  
 gccaaagacca atcgaccatg gctaccggga tccagtttga gaacaactgt gaaattggtg 180  
 ttatctccaa gctgacaaat gcttactgtc tggtagcgat tggagggtca gagaacttct 240  
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 gcactagaat cataggccga ctttgtgttg gaaacaagaa tggacttcta ttgccacata 360  
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 agcgcattga t 431

<210> 36945  
 <211> 234  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-040-Q1-K1-F12  
  
 <400> 36945  
  
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gcgcgggagc acgcgcccac ggcgacgcct ggcgacggcgt cgacggcgta cgcgcttccc 120  
aagtctgggg cggtatacaa gggctacaac tttgcatcca cttgggaaca gagcgcgccg 180  
ctcacggagc agcagaaggc cgcgatcgcc gcgctctccc acgccgtggc agag 234

<210> 36946  
<211> 317  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-F2

<400> 36946

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cgattcgacg atccggcggc ggtgaggcgc ccccgccagc atgaacggaa gccgccgtat 180  
atgttgcttc tcccgtcgt ctacgcccc gtcctcccc tcatcaggat cgggctgcgg 240  
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ggcgctacc tcatatc 317

<210> 36947  
<211> 416  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-F3

<400> 36947

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tgactatgat agcgcgtgtc actgatggcc ttccattgtc ggagggatta gatgatagtc 120  
gggatctgaa agatgctgac ttctacaagc agcaagcaaa actgttggtc aagaacttgt 180  
ccagagggca gcatgaggcg tcaaggatgt caattgagac aggaccatac cttttccagt 240  
atcctaagac ctttttctca ttgcaaaaat tctttgttcc acaattaatc atttagaaat 300  
atatgtgatt cttcatcatg atcctaaatt agagtttttg tgaactggca agtttaggca 360  
gcctaaccat ataccgtaaa cttgaccagt attgtgtata tattggattc aatatt 416

<210> 36948  
<211> 426  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-040-Q1-K1-F4

<400> 36948

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gggttgctcc tctccgtgc cagctagaaa tactggaggg ctgaacacta tcagcaacga 180  
tagctctcca gacgccagtt caaaggactt gcgtgctaag ttggtattgc tgggagactc 240  
agggtgttggg aaaagttgca ttggtcttcg ttttgttcgt ggtcagtttg atoctacttn 300  
caaagtaact ggtggcgcac cctttttatc acaaacattg gcattggagg attcaacaat 360  
agtgaaagtt gaaatttggg atactgctgg gcaagaaaag tatgctgcct tggcgccact 420  
ttacta 426

<210> 36949  
<211> 390  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-F5

<400> 36949

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agctttgaag gttggcatga aacgtccagg atacaatgca agtgactcgg actccgatga 180  
tgccaaccaa tgacagtcag ttacaaattg agttattatt agttaggaga ttcacatggt 240  
aagaaagttt ggtataagct gttgctcacc ttttcatgat ttctaattatt cccctaacct 300  
tggttttcggg acttcaagat tgaattactt ggtggtttat gcatttatct ctacgttgaa 360  
tcaactgtcac actgagcttg tgggtgattag 390

<210> 36950  
<211> 416  
<212> DNA



<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-F6

<400> 36950

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ttgtctgatg gagataatct ttagtcggcc atctgaagat agaactattc cattaagtgt 180  
tattgctgag cagactaagc tttcaatcag tgatgtggag tatctcctta tgaagagcct 240  
ctcggttcat cttattgagg gaataattga tgaagtggac agtacagttc atgtttcgtg 300  
gggtccagccc agagtgcctg gaatcccaca agttaagct ttgcgcgacc gcctggatgc 360  
ctgggttgga aaggtgcata ctacattggt ttcaattgag gcagaaacac ctgac 416

<210> 36951

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-F7

<400> 36951

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gttgtgggtc catgcgacac gacaacgaac ggcttggcga tgggtgtgcgt ggtagggctct 180  
tgtcatcgga gccatcacct ttgctagatg taccgctctt gtctgtgccg gtggcgctccg 240  
gctatggctc tgacttggtg acaccatggt ggcgcaaggt cctcacatac agtccaatg 300  
cgagttgtta ggctcgcacc cgacgttata tgcaggcggc gaggacgaga gctcaatgaa 360  
tagcgagttc aacgccacac caacacaagc tagaacactt ggaacacgaa cgggtttggt 420  
gct 423

<210> 36952

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-F8

<400> 36952

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tactgacgct gcgaggagtg ctcccgatat tgtccttact gagccaggtc ttagcgatcat 180

tatcagcgcc gtcctcacca gcagatgcat ctccagagg atgaagaact acaccatcta 240

tgcagtttcc atcacaatcc gtatagtgtg tggatttatg ctcattgcgt tgatctggga 300

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<210> 36953

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-E3

<400> 36953

aaaaaatctt gacactttat agtacagtca acagtcatta taaaggaat aagcatacaa 60

gccttagtca tcaaacctat ttctttatct cgtagctgca tccaccaact tatagtgaag 120

tatcttaatc caccaaagat atttttcctt attgggtccac atatgaacat agcagtgagg 180

tccatataca tttccaacat ttgtgtcact gaaattcata aataagaata taaagaggaa 240

atacaatatt taccaaagaa gagtttggtg tcacttttag actggagtat ccgagcttgc 300

agggtcttgt tctgaaaaaa ttataactag cttatcatga tccaaaactg tagtttttaa 360

gtagactaaa taaaaccaag attaatttga gaaacgacac aaaacaaatt ttg 413

<210> 36954

<211> 159

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-G10

<400> 36954

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catcctagtg tactcagaaa gtgtcaccca acccttcagg ccttaaaaag ttgtcagtg 120

aaaatgtcag gactagagct agggttgggt aatctgaac 159

<210> 36955  
 <211> 321  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-040-Q1-K1-C3

<400> 36955

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 gtectccgat cgactacgta ctcccacca ctccggcagc agcgaggcct ctctgtctgt 120  
 gcgcggcggtg gctgtcgctg atctctgcct ggcgggcggc cggcatgggg aggtccccgt 180  
 gctgcgagca ggcgcacacc aacaagggcg cgtggaccaa ggaggaggac cagcgcctcg 240  
 tcgcctacat caaggccac ggcgagggct gctggagatc gctacaaaaa gccgcaggtc 300  
 tgctgcgctg cgggaagagc t 321

<210> 36956  
 <211> 319  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-C4

<400> 36956

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 ctcttgctgc ggctgtggc agcagaccg cgtcgagatc attgccaacg accagggtaa 180  
 ccgcaccacg cctcgtacg tcgccttcac cgactccgag cgctcatcg gagatgcggc 240  
 caagaaccag gtcggcatga accccatcaa caccgtcttt gatgccaagc gtctcatcgg 300  
 caggaagttc aatgatgcg 319

<210> 36957  
 <211> 325  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-C5

<400> 36957

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aagagctgcc acgagacagc agattcccca tcatccaaag cgaggtgaga ttcttgctga 120  
aagatcggac ggagggagta gaatcgcggg gggcgtggct gtggttgcca gtcgccatgc 180  
catgatgtgt gtaggtcca gccaccggag accggagttg ctgatgacga cttggcgatg 240  
ctgtggtttc caggctgtag gggaggagag gaagcaggaa tagcctaaca ggggtataga 300  
tctcaggaag ctccatgcgg gtgag 325

<210> 36958  
<211> 255  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-C6

<400> 36958

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ccccgcgctc ctcaagacc tagctccagc cggcgcgcg gcctctcca ccgagaaggc 120  
tgttggtgca gccgccgtcg tcggcagcca caccgctaag tggatgcagg acacgagcaa 180  
gaagtcgcca atggaactga tcaacgaggt accttcgatc aaggttgatg gtcgcattgc 240  
cgtctgtgaa ggggc 255

<210> 36959  
<211> 317  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-C7

<400> 36959

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gagttcctcg gcacctttgc gagcacgcgc cactcggct ggcagctgtg gctggtgagc 120  
gtcggcctcg gatccgtcag cttgctcgtc ggcgccgtcc tcaagtgcgt tccagttgaa 180  
ccggacgatg gagttcgcgc cagtccaaat ggctacgcgc cgctgcccg cggccctgac 240  
aacatataac agctgaacct gagcggccga gaaggtactg acgacgtgct gatttttttc 300  
gcgttagggg tcataac 317

<210> 36960  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-C8

<400> 36960

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aagatcctcg acacctttgc gagcacgta ccactcggct ggcagctaga gctggaagag 120  
cgtcagcctc ggatccgtca gcttgctcgt cggcgcgctc ctcaagtgcg ttccaaatga 180  
accggacgat ggagttcgcg ccagtcctaaa tggctacgcg ccgctgaccg ggggccctga 240  
caacatataa cagctgaacc tgagcggacg acaaggtagt gacgacgtgc tgattttttt 300  
cgcgttaggg gtcataacag attatattat gtaaaaagag atggtgggtga cgacaaggca 360  
cctctatttt gatgggtcat acttagaagt ggtaatagcc tctagatttt acgctacaaa 420  
ctttaaagat cgaaa 435

<210> 36961  
<211> 406  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-C9

<400> 36961

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ggttttcata ggccacacaa ctctgaatcc cttggaattt cgagaattca ttcagaggat 120  
ggcctcagaa taccatggag atacctacca cctcatttcc aagaactgta accactttac 180  
agatgatctt agcaccagat taacaggaaa atcaattcct ggttgggtca atcgacttgc 240  
aaggctaggc gccttttgca actgccttct accagaaggc ttgcggcttg agtcaactga 300  
aaciaagcat cttggagact gtcgtttctc agatgggtcc aataccacca gcaacgataa 360  
ctctgacgaa gatgaattgg aagaaaaaca cctgcttccg actact 406

<210> 36962  
<211> 336

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-040-Q1-K1-D12  
  
 <400> 36962  
  
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 ggacctgggg gttggcataa tcgatttcct gcggcagtc accctgggaca agcagctgga 120  
 gacatgggtg aaggcctcgg ggatccttagg gggccccaag aatgagtctc ccaccgtgat 180  
 ttcttcaatc cagtacaaaa agaggttcan gaaggccatg tcgaggtact ttctcgnctg 240  
 ncctgaccaa tggacctcga aaggcgggta aatcttctcg ctgnttttta gctgcatctt 300  
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<210> 36963  
 <211> 166  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-040-Q1-K1-D2  
  
 <400> 36963  
  
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 aactgacacc accgaagttt aattatcttg aggttcttac actaca 166

<210> 36964  
 <211> 349  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-040-Q1-K1-D3  
  
 <400> 36964  
  
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 cactaccagt acacagtcga ctgataatca cccagacgac ctacccgctc cgagatctcc 120  
 tgaacaatcc gcgtgatttc agaatgacaa cgattcgggt tcagtaggca tttgtcaaag 180  
 caacacgcga agaagtatat atgaactctg cggttaagctg cagagtttca aagtttccag 240

cgccgtataa ggaagctacg tagctatggg tgcaccttgt ccgaagcctg tggacagcac 300  
gagccgatct gcagtcgcgc tgctcacgaa catagagaac acaactgct 349

<210> 36965  
<211> 444  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-040-Q1-K1-D5

<400> 36965

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gcggcgccgg ctgaggcgcc tgggtggccgc ggtggcggcc gggagcgccg acgccgaggc 120  
cttcgacgag gctgcagagg cgctcgccaa gctcagggac gccgagcttg gcccccgcaa 180  
ggacaggacc ggcgacggcc gggagaacaa gcgcagcacg gaggccgccc tgccggagca 240  
cttcctttgc cccatctcct cagagatcat gagggatccc gtcgtcctcg ccttcggcca 300  
gacgtatgat cgtcgtttca ttcaagaatg gttaagcgtt ggaaaccgga catgcncaca 360  
gactcaacaa gtcctttcga aacacattat caccgccaac caccttgtga gaagcatgat 420  
ctcacagtgg tgcacagaca acgg 444

<210> 36966  
<211> 260  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-D7

<400> 36966

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cctgctgcag cattgattac gtgctctagc tgctagctat gcggtccgtg aaaaagaaag 180  
ggggcacagc ggatagtact ggagaatgtg aatcggttcg gttggctgca ggacggatcc 240  
gatttcactt caccatctt 260

<210> 36967  
<211> 264

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-D8

<400> 36967

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 ctgtgccatg gctctgcctt gcttcttggg cagctctgct accagcgcta ctagcatctg 180  
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 ccgcttcggc aaaccccgac aagt 264

<210> 36968  
 <211> 247  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-D9

<400> 36968

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 catcatacaa ccatctatac aagacactcc ttttcgttcc acatcctaca ataacatcct 180  
 atccctatct ttctacatcc ccctctaact ctctctcttc aacctcttct ccatcatgct 240  
 tacccaa 247

<210> 36969  
 <211> 250  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-E10

<400> 36969

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 agctgctcta tcaatgggca aacacttgat ctctgaagag cactcgatct gtacggcatg 180  
 gcacattgga gtacaacatt gaaatgctct gaaacaatga tggtccttca gaaataacta 240



gcaccgatgg

250

<210> 36970  
<211> 430  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-040-Q1-K1-E11  
  
<400> 36970

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cggaaccggt tattggagtc tcaacaatca agaaagagga ctctccttg acagaagggtg 180  
aggttgatgg cggcaccgga agagtgcctg gagaaacttg ggtgcgatca aagccaggct 240  
caaatacctc atgcagggca cgcggctgga acatgagcgc agcggcacct tccgtgggta 300  
gtcaggcaga tgaagctgca tcaaagggtgc aacttcacgc aggggttttag ggtttagggc 360  
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<210> 36971  
<211> 333  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-040-Q1-K1-C12  
  
<400> 36971

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gacaatctgc ccggcatgac ctacctcaag gccgtcatca aggagacgct ccgactgcac 180  
ccgcgggtgc cgctcctgct tccgcactac tccctggacg cctgcgaggt cgccggctac 240  
accattccgg ccaacacccg cgctgcctgc aacgcctggg cgctcggccg acacagcggc 300  
tactgggagc gcgagaacga gttcgtcccg gag 333

<210> 36972

<211> 379  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-040-Q1-K1-E12  
  
 <400> 36972

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tgggaaaccg tgactggagg aagttgcttc cggtcgtcac cgtctgcgan gagcacggcg 120
ccggatgcgg cgaaggaagt ggccggagaag ccggaggagg ggaagaagcc cgacgaggag 180
ggtggcgagg ggaagaaggc cggccccgcc gccgagaagg agaagaaggc gaggaagccg 240
cggagcaaga agcccaagtc cgacggggccg caccaccga cctacttcga gatgatcaag 300
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cacatggcgg agaagcacc 379
  
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<210> 36973  
 <211> 446  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-040-Q1-K1-E2  
  
 <400> 36973

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aacatactag tgtatgagtt catgcataat gggacactaa aagagcacct tcgtggagct 300
gataatgaaa aagataacta gctggcttga accgtttgag aatggcgaag attctgcgaa 360
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cagtaacatt cttctagaca agaaca 446
  
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<210> 36974  
 <211> 353  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 36974

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aagatagcca aggtacttgg aacagatggg ctgaatgtct atttgaacaa gtacagaatt 180  
gagcttgacc ctcagctcga agccctttgt ngaaggcata gcanngaaac ctggacanna 240  
gttataaatg cagacaacca acacctagtg tctcatgagg ccatagattt tctcgacaag 300  
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<210> 36975  
<211> 451  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-B1

<400> 36975

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tacgcgctgt cgcctttcca gcagaaggta atgccggggc tgtggaagga catcaccacc 180  
aagatccacc acaaggtcac cgagaactgg atctgcgcca cgctcctgct ccccccgctc 240  
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taaatgcgct gcccttgaca gacagcactc ggagttttca tgatggggtt cataatcttc 360  
ccatgatgat ttaacatttg ttgatcaat ttcagttcaa cgccttttca tcgttccata 420  
tgcatatatg gtatacgtgt ctggcaaact t 451

<210> 36976  
<211> 338  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-B10

<400> 36976

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gctcaccacc gaacaggttc tgaagcgaga tattccatgg gagcattaca tgtcaactaa 180  
gcttatctcc ggaacgtgcc ttcagctctt acggcgatat gaccacaaac cggagagcca 240  
gcgagctcct ttgcttgagg aggatgggcc agcatatata cgagttttcc tgaatatacct 300  
gcggagcatc tccaaggaag agactgtgga atacgtgc 338

<210> 36977  
<211> 331  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-B11

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cgtcgatgatg gcggacctgc cgaacgcccga ggccggctct gactcgccgg ctgcagacga 180  
cgcgccgctcg ggcacgaacc acaccgttgg ccgcggatac gagcggttat tggacggcca 240  
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ggacaacctc attatcgaga cgaacgacaa c 331

<210> 36978  
<211> 276  
<212> DNA  
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<223> Clone ID: LIB3069-040-Q1-K1-B12

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aacgaggtgc ccaagaccgc ggagaacttg cgcgcgctgt gcacggggcga gaagggcggtg 180  
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<223> unsure at all n locations  
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<400> 36979

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 atagacggaa ctaccggtga gaaatcaggc gacgacaaaag agaccaccaa cgaccaaacac 180  
 tcctagctgt ctcgtgtagg gatccatcgt gctgtgtgtt cttctggctg ttgtacctga 240  
 tgctcagagt agacactggc tgctgctccg caaggaaact gactcccccg accgncgttc 300  
 atgctcctgg ctggctcgct ggccgncctc acgggaacgc tgccgcagaa tgacgactgg 360  
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<210> 36980  
 <211> 388  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 36980

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 tcacacactt gctgggtgtt cttggatttg ggggattttg ctatctcttg ggtgccagac 240  
 cacaggatgt gccatatgtg tactgcctgt tctatgtcat atttgttccg ctccgctgga 300  
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<210> 36981

<211> 427  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 36981

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 gactgccaca actncggtct tgttagatcc catggcagcg accagtgagt tcaaagtgtt 180  
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 aatatcttgt tgagacattt gctgattact tcggtgacgt taaaatgtat attgaagaaa 300  
 gaccatttcg aagatttgtg gaagcttgca tagaagaaac aatcgtgggc tatgttgatc 360  
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 caagtacagc atgctttgtg attgtcagta agaatgacat cccaatctat gaggcagaag 240  
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 cattagatgt tggtcaggat ctagcatgga caacaaatgc aatgttcctg aagtcagttg 360  
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<210> 36983

<211> 416  
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 <213> Zea mays  
  
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 cacttgatata gctggagctg tagcataccc tgatggttct gaattattgt cccataaggc 180  
 aatcccacag cgcgaggatt ttccaagtga gcagctatat cgctcctacc tggtaatcca 240  
 gcgcttcaag agcacaatta ccagcgaccc caagaacggt accgcattct ggatcggcaa 300  
 tgatatctgc ggagaagcga cctacgtggg tttctactgc ggagtactgc ctgggcgaag 360  
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 <213> Zea mays  
  
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 gacatagtgc atctcggcgg ccagccgtgg aggcgggggtg ctgcgcagac tgtgttccat 180  
 cttatgataa accctgacga tgtcgaggaa tgtggaggcc tcgttgctga tcgaggagcc 240  
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 cga 303

<210> 36985  
 <211> 429  
 <212> DNA  
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 <223> unsure at all n locations  
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ccagcgcggtg ggcgtggcaa ctacctcggc cgnctnccgc cgccctcttt ctgcgccag 180  
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accgcggcg gcgtccgac gggtccttga gatgccgggt gcgcaccang cgcncgntg 300  
ctacgacgcg ctgagcgcac gcctcgtcga gcgcgccgag ttcagggcct gctttacgag 360  
cgggtttca atctctgccg cacggctttg gattaccaga tggttggtctc atctcgtacg 420  
gggaaatga 429

<210> 36986  
<211> 410  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-040-Q1-K1-B9  
<400> 36986

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gtgtatcccc aaattgcggt atcaaagcat gaacattggt catcattggc tcctcttcct 120  
cttgaggttg ttctttccgc cgggtcaaaaa gctaaggagg aacctcgaaa acaaggtagc 180  
aatgttcaag ggagaaataa acttgcacga gaaatgagt atgtaatggg agaaggcaat 240  
atagagagca tgctttcagt tgaaatgggc cttagagagc tttcttcatt gaaggtagaa 300  
gatgctgttg tagttgcagt tggccaacat cgcagacct gcatagttcg tcagttcaca 360  
tcagatttca aatcacctgg tgaacctaaa tacttggagg gcattgatct 410

<210> 36987  
<211> 371  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-040-Q1-K1-C1  
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cgccggcgcg agcaggccgt cgtgcacgcg ccggagcctc gacgccgtcc aggccccgcg 180  
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ggaagcctcc accgcctcct catcctcctc gtcgtcgtcg tcaggatgcc catcgccacc 300  
ccggcgccca accccgcggt gggtcgacag ctacctcgac gagctggggg caatgctgaa 360  
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<210> 36988

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-C10

<400> 36988

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agctcactga cgaccaaata gacgagatca aggaggcctt cagactcttc gataaggacc 180  
gcgacagctg catcacaacc aaagagcttg gaactgtcat gcgttcaactg ggtcagaacc 240  
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<210> 36989

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-C11

<400> 36989

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aagggtgtga gcctgcagag caagtacccc ggcgcgcggg tcatgtacgc cgacttctac 180  
agccacgtgt accgacatgg tgaagagccc cggcagctac gggttcagca ccaacctcag 240  
ggcctgctgc ggcgccggcg ggcgcaagta caactaccag aacggcgcgc ggtgcggcat 300  
gcccggcgcg tacgctgtct ccgaccgggc gtcgtcgtc agctgggacg gcattcacct 360  
gaccgaggcg gcgtacagga aga 383

<210> 36990  
<211> 382  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-G9

<400> 36990

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tggattaccc cagcttcaag ctcgtcatcg ttggcgacgg tggaactggg aaaaccacat 180  
ttgtgaagag gcattctact ggcgagtttg agaagaaata tgagcccacc attgggtgtg 240  
aagttcacc cttggatttt aacactaact gtggcaaat ttcgcttcta ttgctgggac 300  
actgctgggc aagaaaagtt ctttggccct agggatcgct actacatgca tggtcagtgt 360  
gccctcatta tggtttgatg tc 382

<210> 36991  
<211> 314  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-H1

<400> 36991

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atgctctatc ttactcccta ttttaaattt tactctataa acagtacagt ctatagtgtg 120  
tgacaatggt ttgcatgttt atatccacac tttgctggag atgggcatgg tagtctgttg 180  
gtgaccaagg aagctgtgat atctgtggcg aggtgccctg ctagaggctc ctttaaatggg 240  
tgtacaattt tcgaggtgga aagaagaatg ttcgatcttg atctccatag caacagtgtc 300  
atattatcta tcta 314

<210> 36992  
<211> 446  
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<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-H10

<400> 36992

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agtgttgact aatacatggt tttatgttat caggatgaat ggagaactgg cttgaaagct 180  
cttcgagctg acagtattag taaactgaag aaagcatttc cagaactggg ccaagagggt 240  
acaaggccat ccaatttcca ggatttctac atatatgcat ttcgttattg cctcacagag 300  
gataagaaga aatgtataga aataccagtt gcttgtgagt tgctgaatct agtattaggc 360  
ttgcagttcc gccctcaggt tgacaagctt aataattacc tcatgtacca aaatgactac 420  
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<210> 36993

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-H11

<400> 36993

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aaaaaagact aatacataaa aaaaagaaat aaaaatgaaa taaaaaactg gcttgaaagc 180  
atattaaagc taaaaggatt agtaaactga aagagagcgt ttacagaact 230

<210> 36994

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-H12

<400> 36994

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agtcgcttat gctacgactc tgcaatgact catggatatg tgagtactgc catggatgat 180  
atttgatgcc tctgaatgac aagatctgat tattgact 218

<210> 36995  
 <211> 357  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-H2

<400> 36995

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ttctttttct ggaaccgttg tagtgtacaa gagatcaagc tttggttttg tacataatgg  180
tgccctgggt agacctatct cctgactgta gttattggct tgaagtctag tttggggaag  240
gttcttggtg ccagctacct tgcagttgcg gtatttgagc agatagtgtg ttctaactat  300
gcatactaag agatgaccgg cttcgggtgt tttggatatt ttatggtttg gatcaat    357
  
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<210> 36996  
 <211> 412  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-H3

<400> 36996

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attagggctg tcaaggaggc gctgcacgtg gcaacagtgc catcgtctga attggtttgc  180
cgggataacg agctcaggcg tgtccttgag ttctgcaagg tgtgcgtcca acaggagaag  240
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gtcaaggata gcttggtgtg ttgggcagat gagatgggaa tggagacacc tgatgcctta  360
gcaatcaatt gtacaaacct agcaaacacc tcagagattt ttggcaagat ac          412
  
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<223> Clone ID: LIB3069-039-Q1-K1-H5

<400> 36997

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<210> 36998

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-H8

<400> 36998

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caatcattgg tggttggtgt ctagctgctg tcacagagct gaacctttat atgggttgat 360  
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<210> 36999

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-H9

<400> 36999

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cgagcgcttt ccctgggcaa ggtccacccg gcggcagagc agagcctcgt tgctgaggag 120  
gggagatggc aggcattgacc gatatgccga tgaggccgc gcggacgggc ccgccgatgc 180  
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tctctgtgag aaggaaagaa 320

<210> 37000  
 <211> 366  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 37000

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ncnntt 366
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<210> 37001  
 <211> 437  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-A10

<400> 37001

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caagagaata ttggagaagc taatgataat tttaataatt gcgaagcaca caataattcg 180
gagattcatg catttgaagt gtcgatggaa acgcagtcac cagaagtcaa ggaagtatct 240
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agacaaacca gtatggcatc gactggagaa ctagtatcta caaatgaaca catacacatg 360
caaggcactg aatcaattc agagcaacaa acaaagatgg tttcacctgc tgaatcagca 420
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<211> 343  
 <212> DNA  
 <213> Zea mays  
  
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<210> 37003  
 <211> 284  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-040-Q1-K1-A2  
  
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 aaacgccatc gtttgagagc ttgttggaat atgttcagac ttctatatga tcatcttatt 180  
 atcagttgct aagagtgcta ttgggcttaa tgggcccttt atgtttgatc actcaatttt 240  
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<210> 37004  
 <211> 350  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 37004  
  
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cgcggaagac gcctcgggcg tcgtggcgac ggtgtcggcg ccgcaggagc gcgggtgccg 240  
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<210> 37005  
<211> 159  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-A4

<400> 37005

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gagatttgat cttttggtgc ctgttaagct tcttgatgt 159

<210> 37006  
<211> 377  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-A5

<400> 37006

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gaagatcttc caaaggctcc atgggaggaa gtacaggctg ccgcagcagg ttccctgcca 180  
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gggagcaacg gaggtggata tgatgaactg ttgacactga ctgaaaacct ctccctgaac 300  
cctgagaaga atgcttcatg gccgacagca tcccgccagg ctaaaccga ggactcactc 360  
ttcaagggac ctgtcga 377

<210> 37007  
<211> 424  
<212> DNA



<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-G8

<400> 37007

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tgagttcatc aagcagtcag ataagtcagg gatccaaacc caacaattct gagatgggac 180  
ttagcttcaa tatgtgcaag aagattgtgc atatgatgaa tggcaatatt tggtcagtat 240  
cagattctaa aagcatcgga gaaactatca tgctagtcct ccagttccag ttggaacctg 300  
tgactccgga ctctggagcg ttctcagatt tgtacagatc attcgggaatt cccaacttta 360  
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<210> 37008

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-A6

<400> 37008

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agcgcaaggc gtctgatctg agtgctgggt tataccattg tgctgtgcca ctgttgataa 180  
tgtacatgta tgggctgttt gtttctccgg agatctcgct gcggcgtcta ctgcaacaag 240  
attatggcga cacggccaga aacaacatga tgcgaaacct gaagccgact ctaatagcac 300  
tgtactcaat gctcgatgca cggcatgcta ttctattaca gggccatatg acctacggag 360  
gagcgacaac tggatgaatct agtggaccga gtgtatgcgc tggatgcggg cgacgaggca 420  
cgt 423

<210> 37009

<211> 431

<212> DNA

<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-039-Q1-K1-F10

<400> 37009

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atgttgaagg caaacaaaag gtgaatcatg tgactgtttt tgagcgccct ggtttgcattg 120  
agttcttgcg gaaaactagt gaatttgcag atcttatact ttttacagca ggtttagaag 180  
gttatgctag accttttagtt gaccgaatag atcttcacaa tagattcaga ctctgtctct 240  
atcgcccatc aactgttacc acggaatata gagaacatgt gaaagatctt actcgcggtg 300  
caaaagattht tggcaggatt gtcattgtcg acaacaatcc gttcagtttc attcttcagc 360  
ctttgaatgg aataccttgt gttccatttt cagctggaca acattctgat gatcagctca 420  
tgacggntat a 431

<210> 37010  
<211> 361  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-F11

<400> 37010

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taaactcctc gatacaacaa agaacgtaag gtgaaggcgt gaagctatat aggggaaggg 180  
gaaccaagg aatggcgata caacacataa ggaacataaa aggcaccttc ttgatgctaa 240  
gttgaaaaga ggagcttttag gcatacttga tttgaatgtt gacgaccgaa ctgttaacct 300  
agctgatata actaacagca cataggagaa caaagggtgga aagaatgctg ctctagttga 360  
g 361

<210> 37011  
<211> 379  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-F12

<400> 37011

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 atttgtgagc actgaacatg gcttattgct ccagttactt gtacatcgtc taaagtttac 120  
 gttatcttct ttcacagatg gacggcaaaa caataaaggc tcagatctgg gacacagctg 180  
 ggcaggaaag gtaccgtgca attacaagtg cttactaccg tggagccgtg ggagcactgc 240  
 ttgtgtacga catcaciaaag aggcagagct tcgacaatgt tcacaggtgg ctctgtgaac 300  
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<210> 37012  
 <211> 256  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-039-Q1-K1-F3  
 <400> 37012

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 attgacaacg ttaaggccaa gatccaggac aaggagggca ttccccaga ccagcagcgg 180  
 ctcatcttcg ctggcaaaca gcttgaggac cggcgcacgc ttgtgacta caacattcag 240  
 aaggagagca cccttc 256

<210> 37013  
 <211> 464  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 37013

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 aatcatcatc aataaccaca aaatcctttt aatcccaaac caggtggggg taggctgaat 120  
 tggaacccaa ccggagccac aaaataaatg gtatgcatgt ggatggctgg tttttcattg 180  
 gctctattaa agcctaattc ttggacatat tctatccttt catgtcttct tttattatct 240

tttcccatgt taactntggt ctttctctgc ctctcttcct attactatca catttttagga 300  
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 gtgttggaaca aacttctttt tttaatcatg tataagttaa agaaatatgc tatgacaaac 420  
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<210> 37014

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-F7

<400> 37014

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 cgactgcatg ctgcgggtga accactaccc gccgcggccg gcgctcaacc ccagcctcac 180  
 ggggttcggc gagcacaccg acccgagat catctcggtg ctccgcgcca acggcacctc 240  
 cggcctggag atcgcgctgc gggacggcgc ctgggcctcc gtcccgcccg acggggacgc 300  
 cttcttcgtc aacgtcagcg acaccctgca ggtgttgaca aacgggaggt tcatgagcgt 360  
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<210> 37015

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-F8

<400> 37015

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 tgaaaatgtt cttgtgcgcg atgatgggca cataatgctt tcagactttg acctctcgct 120  
 gagatgtgca gtctcaccta cactcatcag aacatcagct ttcgattctg atcccagaag 180  
 agcaggtggt tctttctgtg tacagcctgc ttgcatagaa cctacttcag cttgtatcca 240  
 gcctgcgtgc tttctcccca aattcttcgg acagaagagc aagaagaaga ctcgaaaggc 300  
 aaggtctgag ttgggacata acgccggcac ccttgccgag cttgttgccg agccaacatc 360

agctcgggtcg atgtca

376

<210> 37016

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-F9

<400> 37016

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tcacatcatt gatttcagtg atctgtccat tggggatcct atatgtgaca taattccgct 120  
gcacttggat attttccggg gtgatagtga ctttctcaag gaatttctac ggagctatca 180  
acttccccctt ctgagggggg aatcaaccac cgatgtctac agatcagtg c gaaactcgaa 240  
gttcagcaag gcatcatatc gcgcgatgtg ctactgtata ttacacgaag acaacgtc 298

<210> 37017

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-G1

<400> 37017

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gaagagagcg agccgaggat ggcgtcaccg aagccctcgt cggcgggcct gtcctcctg 120  
gcggggggcg ccggtgctggc gctggcgcg cgggacctga cgcacgacaa ctgcgtgaag 180  
aacaagaagg tgacggtgca gaacctgtgc agccacgacg tgacgctgac gctggagccg 240  
ctggccaaca gcccgccgct gttcgcgggc acctacacgt tgcacccgtg cagccacgcc 300  
gagttccccg tgtgctggtg gacggggcgc ctgcgcgcgc ccgaagcctg ccaggtggag 360  
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<210> 37018

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-G11

<400> 37018

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gaaggggaag aatctgtccc aggtggtgtt ggcgggtcag ctactgctga tgcattccat 120

ttggattagg atctgctact ttaggtcttg taagtttgat tagctactgc tgttcagatt 180

ttagagggtgc tattgcttct gctgtatgat gtttgagttt gatattcata tttcagacct 240

gatgttgctt atatatgtgc taatatcttt aaaatctgat tcagagaatc atatatatta 300

tatatcaagt atattatgta gtatataact atatactgta gtgtatatat at 352

<210> 37019

<211> 261

<212> DNA

<213> Zea mays

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ttcgagcaag cagacttcct tctgctcctc accaagttcg atctcctaga gcagaagatc 180

agcagttccc cgctgacctc gtgcgactgg ttcagcgact tcactcccct gatcagccgc 240

aacctcctca acggcggcag c 261

<210> 37020

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-G2

<400> 37020

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aacaagtcgg gcggcgatga cgactacggc cgcagcggcg gcgatgggta cggcaggtcc 120

ggcggcgacg actacggccg tggcaccggc ggcgggtggct acaacaagtc cggcggcgga 180

gacgactacg gccgcagcgg cggcgacgac tacggccgtg gcaccggcgg cggcgggtac 240

aacaagttcg gagacgacgg ctacgacagc ggggtacaaca gatcgggcac caccaacgac 300

gacg

304

<210> 37021

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-G3

<400> 37021

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cagaggtcct agatctggcc ggttcaagaa ccagaaattg tacggtcata ctgtcactat 120

tgctgtgaaa gggcagtcct tcccttctag tgaaagcaag aatgatagt ctgtgcctga 180

tagagcaaag tacaatagag atgacattcc tgttcagtac gatgctgcaa agatctttgt 240

cattaaatcg tacagcgagg atgacattca caagagcgta aagtacaatg tgtgggcaag 300

ca 302

<210> 37022

<211> 396

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-039-Q1-K1-G4

<400> 37022

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tccccctgcg aagggaggaa gcagccacgc cgccgtctcg gcgacttcct gacgactgcc 120

tcttcggtct cgaacgcgat cttgcccatt gtggctctgg cgccggtggt tcgtgagatc 180

tanggttgtc gagcgccgcc ggaatgggag ctggatgggg cgccnggaag atgttcgcag 240

cgggggcccgc cgtcccggag ctgggtccaac gttggcgga gcgtaatccc cgaactactt 300

gcaaaacaca naatggactt ggaaaatttg acgctgacaa aacattcaat cagaacatta 360

cattttttcc tggtagccca tgtacaatac ttgaaa 396

<210> 37023

<211> 399

<212> DNA

<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-039-Q1-K1-G5

<400> 37023

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actttgtttt tgacgctggt gaagatgttc gagaggagca agatggtgac aatcgccacg 120  
gggctggacc tactcagcta ctcgatctgc atcttcttgt cgtcggcctc tctctacatc 180  
ctgcataacc tncacaaggg cgacgaccat gaggagtgat gagagtgtgc aatataatgc 240  
cgaatctgta actctatgac agaagagata atgtgtaggc ttgggttcag ctgccatgta 300  
ccttactgga cccacgtttc aatgagcatg ggtgtcacct gacctgacat gccctttaa 360  
gcctggtcct gaacttagac caccatgtgc ttactata 399

<210> 37024  
<211> 333  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-G6

<400> 37024

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cggcggcctc gcctgggcca cggacgacca ctccctccac aacgccttca gcacctacgg 180  
cgaggtcctc gagtccaaga tcctcctcga tcgggagacg cagagggtccc gcggcttcgg 240  
cttcgtcacc ttcttcacgg aggaggcgat gcggaacgcc atcgagggca tgaacggcaa 300  
ggagctggac tgccgcaaca tcaccgtcaa cga 333

<210> 37025  
<211> 396  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-G7

<400> 37025

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ggctgtgccg aggtccccgt caccatccgg gaccctgggt gcacccggaa gacctttccc 120  
 gactacttcg atgtgctgag cactttcgtc aagaattaat aaagcgtgcg atactaccac 180  
 gcagcttgat tgaagtgata ggcttgcgct gaggaataac atttcttttg ttctgggtttt 240  
 ctctttcacg ggattaaatt ttgagtctgt aacgttagtt gcttgtagca agtttctatt 300  
 tcggatctta agtttgtgca ctgtgagcca aatttcattt caagagtggg tcggtgggat 360  
 aatcagaata ataaattacg tttcagaata caaaag 396

<210> 37026

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-F1

<400> 37026

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 ggcggcgggc ttcccttgcc actctagccg cctcggccgc actgctaccg cgtcgccgac 180  
 gaggcgcagc ctaaaggcgg aggccaaagg cgagtggctc ccgggccttc cttccccgc 240  
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 cccggagAAC ctgaggtggg acgtgcaggc ggagctgggt aacgggcggg gggcgatgct 360  
 gggcggtggc gggatgctga tcccggaggt gctgaccaag gccgggctga tcaacgcg 418

<210> 37027

<211> 166

<212> DNA

<213> Zea mays

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<400> 37027

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 ggtgtctaca ggtgcatctg gtgggggttt cagcatcgat ctgtctacct ggactacttg 120  
 agtgtccact ctgctgtctg cgtctgtagg ctccacctcc aacttc 166

<210> 37028

<211> 395  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-039-Q1-K1-D4  
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 agggctctgaa gcacagagtc tttgaggttt gcctagctga tcttcaaggc gacgaggatc 300  
 aagcttacag gaaaatcaag ctctgtgctg aagatgtgca aggcaagaat gtgctcacia 360  
 acttttgggg catgaatttt accactgatt aactc 395

<210> 37029  
 <211> 370  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-039-Q1-K1-D5  
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 atccatattg gtgggtgctaa ggggcctcca gatagggttt tcatcattgg agcagtgaat 180  
 gaagtcagga aagccgaggc catcttcaga ggccgaatgc tggagttcta gagatgttac 240  
 cctttgcgcc ccatgtttcg actgctttat atcttttgaa cgaaaaaag ggggaaatac 300  
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 ataaatgatt 370

<210> 37030  
 <211> 369  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-039-Q1-K1-D6

<400> 37030

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gaggagggac ggttccacgg ccctcacagc cacagcacca gcacgacccc gacgggcggc 180

gcggcgggcg cggcggcatc gccgcgcaac ttccggcgca gcttctcttc cgcgtcctcc 240

gcggggccaca gccacggcgg cggcggcggg ggcagggtgcg tgtgcgcgcg cgcgaccac 300

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<210> 37031

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-D7

<400> 37031

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aaaattgcag catctagtcc taaagcaatt cactttctaa acaataacca caagctaaaa 180

tggagtagat ctaaattctc caaagaatgc aagggtgatt atgtgaacaa taacatctca 240

gaatgcttca acaattggat taaagattac aaagatctcc cagtcgctga tctaattggat 300

aagattaggg agaaaattat ggagaagatt tatacaaggc aagagatagc caatcgaatg 360

gaagggcgta tcctacaaag tgtgatacat gaagtgaaca tgaagagc 408

<210> 37032

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-D8

<400> 37032

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ccttcgtctt ccccatgaag aaaccgtact agctgtagct gctgaacgtt tgagtcccc 120

tgctgccacc cttatctcca tttgtgtcat cgaaactcct tgcttcccct gctgtgtgaa 180  
tctgtacggc tttgcgtggt ctggacactg attgcagttg aatccagttt gtagttctat 240  
ctgttcacgc aatctgcccga gactcctttg gtaccattca acaggctgct gctttctggg 300  
taaaaa 306

<210> 37033  
<211> 420  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-E1

<400> 37033

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tgctgggatac tgtacattga tgggcttggtg gtcagttctg atggtaattt gctagatgag 180  
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tttgacacat tcggtgtgcc tattattatt acattaacca aggtgggtcg gcactacatc 360  
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<210> 37034  
<211> 418  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-E11

<400> 37034

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ttatggaagc agttgacgtg gacaagagtg gcagcattga ctacaccgag ttcctcactg 180  
ccatgatgaa caggcgtaaa ctggacaagg aggaggattt gttccttgct tgtcaaacact 240  
tagacaaaga ctatagcggg tacataacaa gagacgaact ggaacaagcc atggcggagt 300  
atgggggtggg tgatgaagca agcattaagg aagtgtctga cgaagttgat aaagacaagg 360

atggggagaat cgactacgaa gagttttag aaatgatgag gaagggaagt tatacctg 418

<210> 37035

<211> 287

<212> DNA

<213> Zea mays

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<400> 37035

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caaaatgtat ttcttggttg gtatatagca gccctacaac actttggtga acttagttac 180

tgcagactag gtaattacag ttgcacctt tgtattttat agcaaacca gaaattttca 240

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<210> 37036

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-E2

<400> 37036

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accgtaaaga catttattgt tgctattgtc gtaaaagggg ttgggtatag caacaaaaca 180

tctcttcttg tcggcatgtc tcttgcacaa ataggagagt ttgcttttgt tctcctaagc 240

cgtgcttcaa gtatccatct catcgagggc aagctatacc tgcttcttct tggaaccact 300

gcactcagtt tgggtgacaac ccctctgcta ttcaaatga tcccagcagt ggtccacctc 360

ggggttcttt tgagatgggt ttctgtcgat accaatcagc tgggcctaaa aaatgatgtc 420

cttcgcattg atagcggcaa gcgcataaat ctgat 455

<210> 37037

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-E3

<400> 37037

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catggcgcta acgcataggg tgattttgga gagcttaagg atggcgagca tcctctcgtt 180  
cacgttcagg gagggcgtgg ccgacgtgga gtacaaaggg ttccttatcc ccaaggggtg 240  
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<210> 37038

<211> 473

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-039-Q1-K1-E4

<400> 37038

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ctggggggca gggacaggat agcgcggcta agcggcaacg gcggcagcca tgagctggag 180  
acgaggcgga agcggaggcg atggcgngt ctcgaggagg tgggccgtcc tgctctgcgt 240  
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tgagattgct aggccgaatg cgaatgtgga ggaaggcacc gtgccgattg ccgcggagtg 360  
tggttctaaa aaggtccaag aaaagcagga ttacagagat attntacagg ttcaagatag 420  
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<210> 37039

<211> 448

<212> DNA

<213> Zea mays

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tgtgttgggt ggtctgtcac ttgaagggtt tctctcaaag tgggctctta tgacactgct 240  
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tgcatttact gtcacaagga aaagacgtgt ggatcggaaa agcaacagac acagagaaac 360  
atccccagc gttttgtttc ggtgccagag gctctggaaa gacatcgggtg ctacaatcaa 420  
tcacggaag gcaacctttt gatgcctt 448

<210> 37040

<211> 71

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-E6

<400> 37040

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<210> 37041

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-E7

<400> 37041

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tctctcaagt cgtcgtcgac gtcggcggcg gccttccttg gccactctag ccgcctcggt 180  
cgcactgcta ccgcgtcgcc gactaggcgc agtctaaagg cggttgcaa gggcgagtgg 240  
ctccggggcc ttccctgccg cgctaccgt gacggcagcc tgccgggcga caatggcttc 300  
gaccggttg gcctggctga tgaccggag aacc 334

<210> 37042

<211> 413

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-039-Q1-K1-E8  
  
 <400> 37042  
  
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 cgggcgctgt cggacctgcc gggctcccg cttcttcgcgt cgtgggactt cacggggcgac 240  
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 ctggggggacc cgcgcgcggg cgcgccgggc ctggggggcg cgttcccgtc cgcgggcgctc 360  
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<210> 37043  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-039-Q1-K1-E9  
  
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 aaaagaaaac aaaaaatgga ggagaaaggt tatggaataa caaaccaaaa accaatgacc 180  
 agaatactat acttaaaa 198

<210> 37044  
 <211> 475  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-039-Q1-K1-D2  
  
 <400> 37044  
  
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ggcagcggca gcgggtctgc caacaaggtg gactctccga ttctcggcct cgtcaccgag 240  
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cagtgtgaca ctacgaata tacttgctcg cccgtcttac accattgttt gacagttttt 360  
acaatgctta acttttttagg tgagtggttg gttgctggga atgtacagta tttgggtcaa 420  
aattcaaat gtttcagagg cttaatccaa tgaaacaggc cctgggtttt taaaa 475

<210> 37045

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-B9

<400> 37045

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ctcaagcagg acaagggcaa cgacgccaac accgggctg accgacggcg aaagaagcgt 120  
gctccggccg gtggcgccgc caacgccgtt ggaaacgatg atggcgagga gcagcacctc 180  
aacacctttc tcgacgtgc gaatgcgtcg tccgcctcct caagggtgca gttcaagaat 240  
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<210> 37046

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-039-Q1-K1-C1

<400> 37046

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ctctccggca acgagctcag cggcgaggtg ccgatgcagc tggagaacct gaagctggac 180  
cagttcaatg tgtccaacaa ccagctgcgt ggcccggaga cgtaccgcag cagcttcttg 240  
ggcaaccctg ggctttgcct ggatgatgcg ctccatcttc atgtttgcag ctgccatcct 300

ggtcgccgga gtggcgtgag tctatcggcg gtaccggagc ttcagcanat cgaagctgcg 360  
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<210> 37047  
<211> 366  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-039-Q1-K1-C10  
  
<400> 37047

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gcagcgggtcc ctctttgcct ccaaggccgc accttcgcgc ctctctctcc tccgtggcgc 180  
ccgcatcccc tcgcaggccg tctccttctc cgggggcctt gcggcgtcgc cctctcacag 240  
ccgcgcgcgc ttgcctacat ccgccagcgc cgagcccaag gaagcagatc ttcagtctaa 300  
aatcaccaat aagggtgtatt ttgacataag cattgggaac cctgtgggga agaaatgttg 360  
gaggga 366

<210> 37048  
<211> 319  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-039-Q1-K1-C11  
  
<400> 37048

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accctacaca tgtgagtttt cacttgtatt gactaaggga atgcttagac ttctgtcccc 120  
ttgtcaatat tgggttggtg aatacttagc catttgatg tagaacccca ggaaatggtg 180  
cagtatgcga tttggagtgc tggcagcttg taaaacaaat ctgtgctagc agtccaccat 240  
ttgtttacat ctccaaatct tgtttgaaac ttgcatgtga acgcaggcct tcgtctcaaa 300  
atataatttg ttttagatt 319

<210> 37049  
<211> 429  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-C12

<400> 37049

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tattgaacgc attgcggaga gatttgttga tttgactatg gaacataagg gggagatgaa 180
ggttgtggtc aggacagtta tttcactcac caaggaggag gagaaagaac tcaaggaaac 240
cttgcaggat atccttgggg aaaacaaaac tattttgggtt gaacagaaga ttgactacag 300
catcatggga ggattagtga ttgaattcgg gcagaagggtg cttgatatct caatcaggaa 360
cagggcggaag caaatggagg cgttcttgaa ggcaccactt gacttctaac aacctttttg 420
ataaaagca 429

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<210> 37050

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-C2

<400> 37050

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gcagttgctg aagccaacca cgctgtgcag gaggcaaagg ccgagaagga gaggttcaa 120
gagaagcttg cacacacgga atcagagggt gctgtggcca acatggctgc acatgaatct 180
aagattgagt tcgacaggct tcaagagaaa cttacatata cagagttggt ggttgctgaa 240
gccacaagg ctgtgcacga ggcaaaggct gagagttcgc atctgaagga gcggttactt 300
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<210> 37051

<211> 392

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-039-Q1-K1-C3

<400> 37051

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 ttccccctctg tgcacttcgc cgaaaagtaa taatgggatt gctatgcatg gcccttggtg 180  
 tacactagaa aattgggcac gcaaacttgt gtcagttttt ccgctgttgc gaaattcagt 240  
 gatgggtgttt ttgtaactat accaacctgt gtcagttttg ccgttggtgc aaaactcaat 300  
 gatgggtgttt tttgtaatta ttatacatcc gaataataag actgggtgttt ccagacagac 360  
 tatgcangct aaagggaat cacgattttt ct 392

<210> 37052  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-039-Q1-K1-C4  
 <400> 37052

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 ccagacaggc agaagttcaa acaagggtt aaatttttcg aacctgagat caaaggacct 180  
 ttacctgaaa tgggtgagta ca 202

<210> 37053  
 <211> 283  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-039-Q1-K1-C5  
 <400> 37053

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 caaagcggaa cttgacaaga tgtttgagtt cgagggcgaa ttggtatctg ctaaccggaa 180  
 ctggcagatc gtttataccg acaacgaggg tgatatgatg cttgtcggag atgacctgtg 240  
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<210> 37054  
 <211> 285  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-039-Q1-K1-C6  
  
 <400> 37054  
  
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 agcttcatca gtattaaaaa aaaaaaaaaa aaaatataaa aataaaaaaa aaaaaaaaaa 180  
 aaaaaagaca aattgattca aaagaaaaag tatttaaaaa gagataatta aatttaaaaa 240  
 aaaagtatga tttataacaa agttaaaact taaaaaacgt ttgtt 285

<210> 37055  
 <211> 276  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-039-Q1-K1-C7  
  
 <400> 37055  
  
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 gatgactatc atgttgacaa ttgtcgacga tcttgtgtcc atcgacactc taattgagga 180  
 ccaccttacg caagagccca tcaatgagta cgtccagagt tgcgacattg tggctttcaa 240  
 caagatctag agttcagttt ctgagattgg gcaacg 276

<210> 37056  
 <211> 431  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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tcgtgcgcgt tttcgaggag ggcacccgtg atcgtcctta cgggcactgc ctgcgcgcgg 180  
gctcgcgcaa gtaccccaag aaggatgatcc gcaaggactc cgccaagaag acggccaaga 240  
agtcccgcggt caagtgttct atcaagctcg tcaacttcac gcacctcatg cccacccgct 300  
acaccctcga cgtcgacttt aaggacgtcg catcggggcg gcccgacgcg ctcttcaccc 360  
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<210> 37057  
<211> 433  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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gcagcaaaat gtacctcaaa gacaagttgt tgtgaggagg ttctacttcg cttttcagct 180  
tgacttgacc ctgatcatca aactagctgc agtggtgttt ctcttttagcc aggaaggctc 240  
aaaacaaagg ctatttcttc tcatactgtt tgcattcattg atttacttat atcaaaccgg 300  
agctattata ctttttgtaa gatggcttca gcggggcgga ggtgcagctg ctcatccacc 360  
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<210> 37058  
<211> 202  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-039-Q1-K1-D1  
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ttccattgat tcttaccctt tc

202

<210> 37059

<211> 454

<212> DNA

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<223> Clone ID: LIB3069-039-Q1-K1-D10

<400> 37059

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agaggcttaa aagcacaggc gatggacca ctcaacgcgc ctcagcactg gctgccctat 180  
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gatcttcaga aaatctacga gccaaagcta gcagcacagg agataagact gatgtcgata 360  
ggcctgtcat aactccagct ggaccatctg gtccatcttc tctcagttct gaagctgggg 420  
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<210> 37060

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-D11

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agaatcgatc aatcaatcca aaagggtgca ggaaaacaga gcaatcccgt tgcttagcgt 180  
gttcgccttg ccgttggcgt ctcttctccg ttcccttcgca cgcgtaggcc cataaacctc 240  
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agg 303

<210> 37061

<211> 415

<212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 37061

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ccccccagcc ggccacgcca ccatgctgcc accggcccgcg cgccttgcgg cccgccgcct  180
tctcggcctc gcttcgcat ctgcgtcggg agccgcgggc cgcgggtag cttcctctcc  240
gatcgtttcc gcaagctact ccgncgncgc gtccaggggc tccgtcttca gcaccaggcc  300
cttctncacg gctcttaact accaccttga ttccccggag aacaagccgg acatgaaatg  360
ggaagtctca caagcgaata tgaagaaagt caatgagatt cttgctcact atcca      415
  
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<210> 37062  
 <211> 397  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-D12

<400> 37062

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agtccatggc gttcaagtcg gcgctggagc tcggcatcgc cgacgccatc cactgccacg  180
gcggcaccgc cacgctcacc cagatagcca ccaaggccgc gctccacccg tccaagacac  240
cgtgcctgcg caggctcatg cgcgcgtca cagtcgccgg catcttcagc gtcgccaaga  300
actcgtccga cgatgacagc gatcagcacg tctacggcct cactccggcc tcccgaattc  360
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<210> 37063  
 <211> 404  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-A2



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ctattggaaa ccaagtcggt gaccactgga cgtcttgcaa tagcttaaca tatacgactt 240

tattagccat tttttgttac acggcttttt gtattcttga gagccttaag caaatctct 300

ggtagtgga tcaggcttag acttttacat ttcttgaga aatgctgcac cattgatgga 360

atatgtaagc tgcaccatgg aaatgtgact gcagttttat gggt 404

<210> 37064

<211> 393

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-039-Q1-K1-A3

<400> 37064

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cagatgagga ggacatcatt tacgtaaaat agccattgt cttctaggaa cttggtcac 120

attcatccag aacacagcag gtgtgcttct actgatcgaa aatacatctt ccaaataact 180

atgaggactt aaccaagcac cattcaatct tcatttgctt ctatagtttg gggtgcgttc 240

tgcatacata atattgccta tcaaggtaga ttgcccagag cagacttcga tcttcttaat 300

ctacctgaca gtttcttacc atcatttgat tntattgatg gacatgttaa gcctgttcta 360

gggagaaaga ttaactggat gaagacagg atc 393

<210> 37065

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-A4

<400> 37065

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cagctcccc aatctgcata tgcttgaagt atattttctg gtgtttgtcc ccatattcag 120

tgtctgtaga taagagacat gaaatgtccc aagttttcttt tgatccatgg tgaacctact 180  
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 gtggcggccg acgaagcgcc cgtgggtggag accccggcga cggccgctcg gcccaggag 180  
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 agaaggccgt catggcacta caccggttct accagcgatc ccccttctnc gtcttcacc 180  
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 gttttgttaa catcctcaaa caagttgcag agaggagact accgacttcc tatgattacc 360  
 accaaatgcc cgcaccgttt attcagataa aactattgaa gatactngct ggacttggtta 420  
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<210> 37068

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-A8

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 gtcaccaatg gccactgccg aggtccagac cccgaccgtc gtggcgggccg aggaagcgcc 180  
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 tgccgaggcc caggctgctg ctactgctga tccagaggag cttaccgcgg ccgagcagca 300  
 agcagccgtc gatgcggagg ccgcggatac tgctgggtgcc gaggagctcg tcgcggccta 360  
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<210> 37069

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-A9

<400> 37069

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 gcctccgcca agggcttctt cgagtgcacc cacgacgtga cgtcgctgac gtgcgccgac 180  
 ttcttgcgcg cgcggcggt gcggacgcc gtgatcgtgc gcttctcgac ggtgatccac 240  
 gagcgggggt ccccgagac gatccgcgac ccgcgcgggt tcgccgtgaa gttctacacc 300  
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atcaagttcc ccgacgtgat ccacgcgttc aag

393

<210> 37070

<211> 248

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-B1

<400> 37070

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tactactagc accgaacttt gcgcgggaat ggacccccct ctgcaggacc gctaccagac 120

acacttgacg gatcacatat ggactctggg aaccaacagg cggtgctgta ccgtcagcta 180

ctattcttga tccccctctga gccctcttct tcattctcatg cttaaatatg cacacatgct 240

tccgtaac 248

<210> 37071

<211> 330

<212> DNA

<213> Zea mays

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<400> 37071

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cacgagtagt ctagctagaa tacactcgcg ttcaaaacaa acacacagcg tcgtgctgcg 180

tgatctctga ccgcgtcgac aactaccgca gcaccaagca gctgatggcg gccaccgtat 240

cttctgcct gagcctcgtc cccaccgtgc accaccgggc cggcgggttc cccagtgtgg 300

cactgacgaa cacgcttcag cgccgtcgtc 330

<210> 37072

<211> 425

<212> DNA

<213> Zea mays

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<400> 37072

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cctctatgcg tcccaaccgt ctggtttgct ggagagccct tcgggcttgc cgctgggtag 180  
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cgagtgcctc gtcaaacga gtctcctcga aggaactttc gttgggatag tgcttctcat 300  
catcctgata tcaggactca tgtgcatgat gggcatcgat actccctcga ggtttgaagc 360  
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<213> Zea mays  
<223> Clone ID: LIB3069-039-Q1-K1-B12  
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gggtgtctat gccttccaac cgtctgatgt gctgaatagc cctttgccct tgctgcttgg 180  
tacgcatact ccctagaaga acactaactt ctccaaaact gtcc 224

<210> 37074  
<211> 446  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-039-Q1-K1-B2  
<400> 37074

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cagctctgca cctgttgag cttctagcaa caataccaac actatcctca caagacacag 180  
aggcaattcc cggttgcacc tccagatgcc acaacataag cataccttac cccttcggta 240  
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agcctccggt gctgtacatg aacagcgctg gatatcgagt tgtgaaaatt aagctgaacc 360  
ctagggtcgt gtacctcgac actcgtttcc accaactggt ggggaaaagc agctatggcg 420  
agagctggaa cctcagcctg gacaac 446

<210> 37075  
<211> 378  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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acctggattg aattgtagca tacatgtact tatgcttttg atcatgttcc tttttgcatt 180  
ttgttgctta ttatgggtgct caagttgtac aaacactccc tggacctcac aagtccgttg 240  
caaagtgatg cacatgttta gggggagatg tgctacaact tgaccctttg agactaacca 300  
tgtgcttgag tttgataatt tagtctcgaa tgatgattga naggggaaaa gtggacttgg 360  
accatgnaag actttcac 378

<210> 37076  
<211> 469  
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<213> Zea mays  
<223> Clone ID: LIB3069-039-Q1-K1-B4  
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tacgcacatg tcacaactca cacggctcaa gattgggctg aaacttttgt atttgagcta 180  
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caaatggcaa ttcagcaata tttgcgctct aaaaatcgtc tgctcatatt gggtttcaat 300  
tcgacattga ctgagccagt cgaatcctct gggagaaggg gtggtgacca aatcaaggaa 360  
atggaactca agttgcatcc tgacttaaag ggtcctctga gagccctctg tgaggatgag 420

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469

<210> 37077

<211> 133

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 37077

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gactctggca tcc 133

<210> 37078

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-A12

<400> 37078

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gaggtgctgg accgcctcgc cgacgcagac ggcgaccggc ggtcggccgg ccaccacgcg 180

gcgcacggcc acggccacgg acgcgtccac gggctcggcg gcggcggcgg agcgcgggtg 240

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-B7

<400> 37079

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tctgccgccc acatctaaca gcgtagacac ccattcaaag gcagagccta atgctggacc 180  
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<210> 37080  
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 aagaaggggg cggtctggcg caaggctggc ggccccagga agaagtcggt gtcgcggtcc 180  
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<210> 37081  
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 gccgccggct atggaagggg atctgtgttc gttctcattc ctctattccc ctcccagatc 240  
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<210> 37082



<211> 227  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-038-Q1-K1-G12  
  
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 tgtggattat gttggaaggg ggtggggggtt acgcgacact gttcgccatc tatggacttt 180  
 acatcggaac gagaccttct agatgatcaa ttatgtcctg gtaccag 227

<210> 37083  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
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<210> 37085  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-038-Q1-K1-G4  
  
 <400> 37085

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<223> Clone ID: LIB3069-038-Q1-K1-G5

<400> 37086

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<400> 37087

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 <213> Zea mays  
  
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<210> 37091  
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 <213> Zea mays  
 <223> Clone ID: LIB3069-038-Q1-K1-H12  
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 <212> DNA  
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<210> 37093  
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<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-H3

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<210> 37094

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-H4

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<210> 37095

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-H6

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 ttctatcata ccgtgtgttt gagatcacga atgtcttgaa gtcgggtttt atccccagta 360  
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<210> 37096

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-H8

<400> 37096

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 ggagctcaaa gaaactgtgg aagaggcgtt gcagctcacg gacgagaacg aaaagctatg 240  
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<210> 37097

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-G1

<400> 37097

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 aatgctgatt cagaatttaa ggccactgtt tcacagggtc ttactaatca ccaggaggat 180  
 aaggctgctg acaacactga agttcctcag gcatcaatct atagaaactt gtggattgaa 240  
 gcagaagctt cagcttgtaa actcaaatac gagcttcaac atgctctcct gaagctcgag 300

acagcaaaag gccttaacga cacaataaaa gcccttgact cattggaaga cagtaaaagc 360  
tctaactcat acatttttcag taacaaacca cagaaccatg ggaaaggaac cgttacatgc 420  
gc 422

<210> 37098  
<211> 305  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-039-Q1-K1-A1  
<400> 37098

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ccatcagcct tctcatcgcc accaatggcc actggcgagg tccagacccc gaccgtcgtg 120  
gcggccgagg aagcgcccggt ggtggagacc ccgccgccgg ccgtcgtgcc cgaggagtct 180  
gccctcgccg agggccgaggc cgaggccgag gctgctgctc ctgctgatcc cgaggagctt 240  
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gagcc 305

<210> 37099  
<211> 414  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 37099

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aaggtgcagt ggtgattgat gttgggacaa atccaatcga ggatccaacc agtgactacg 120  
gttatcgccct aactggggat gtctgctttg aagaagcagt gaatgtggcc tctgctataa 180  
ctccagttcc tggcggagtt ggaccagtaa cgattgccat gcttcttggc aacacacttg 240  
attcagcana acgcgtttat ggctaagtg actgaactga cccccctctg aactgtaatt 300  
ctgtcgtgct tgtcctttgt aaactagttc tcttctcttt tcacacctcc gtcgctctct 360  
attttagctg taagaagaag gctgggatgt accatattct tgctcaataa gtat 414

<210> 37100  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-039-Q1-K1-A11  
  
 <400> 37100  
  
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 gaagcagacg gcgcgcaagt cgaccggcgg caaggcgccg cggaagcagc tggccaccaa 180  
 ggcggcgcgc aagtcggccc cgccacggg cggcgtgaag aagccgcacc gcttcgccc 240  
 cggcaccgtc gcgctccgcg agatccgcaa gtaccagaag agcacggagc tgctcatccg 300  
 caagctcccc tcccagcgcc tcgtccgcga gatcgcgcag gacttcaaga cggacctgcg 360  
 gttccagtcc tcggccgtgg cggcgtgca ggaggccgcg gaggcgtacc tgggtggggct 420  
 cttcgaggac acc 433

<210> 37101  
 <211> 384  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-038-Q1-K1-E2  
  
 <400> 37101  
  
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 atggatctgt tggagcggaa tattaagacg gagacggggg agacgcgcaa ggaacaggag 120  
 cgtaaggagg aggtggaggc ggatgccggg gagaggaaga cccaggagcc gccgcagcaa 180  
 ggccagggcc tcctctctt actcgccaac ggcagaggca ggtctggaat gttgccgatg 240  
 tcaaacatgt cagctaatac ttcacagctt acaattttct atggcggatc agtatgtgtg 300  
 tatgactcag tgccaccgga aaaggcttaa gcaatcatgc ttatagctgc agctgcagcg 360  
 gcagcggcag ctaccaaag cagt 384

<210> 37102  
 <211> 436  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3069-038-Q1-K1-E3

<400> 37102

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gcggaggatc aactggattt ttcgtatacg gctactgcct gtactactac tatgcgcgat 180  
cggatatgtc tggcttcattg cagacatctt tcttctttgg ctacatggcc tgcattctgt 240  
atgcattctt cttgatgctt gggatgggtg gcttccgtgc ctccttggtc tttgtccgcc 300  
acatatacaa atctatcaag tgtgagtga ctgttggttg aagatcaaga gcagcagagc 360  
tgtaccggtt tttggtgcc cagagaagtc ccaaatatag aaaaaaaaaat ggtttgctct 420  
cgctgcaac aggagc 436

<210> 37103

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-E4

<400> 37103

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ctccgtccgg ccgtctgccc aggtctgctg cccggcgccc tggcctcccg gtcgctggct 180  
ctctgcccag gcgccaggcc gcaggtccca ccgtcccaga ccacccgcga accagtccgc 240  
tgcaggctgc aggccaccgt cctccagtt cgccggtcag attattaacc attcagatac 300  
cccagctccg cctagacgcg aatcctccgc cactatggtg gcagcgggtg ccttgccgag 360  
ccaagcacag gccgtgcttc ggagccggct ctgcgaccgg gtcttcatcc acttccgcct 420  
cagtagctcc ctggacacta attacagcaa gctgaagtac 460

<210> 37104

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-E7

<400> 37104

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ctagaacagg acctcacaag aaagaaaaag aaaacaccta gaagcaataa taccaaccat 120  
ggacatagga gaacataagc gccggcatgc tgacaagtaa aacattgatc aaccatggtc 180  
attactttat ttataacaat cttggaagct tgaccattta cttttcactt atgcgtccgc 240  
tgtctggtat agacactatc atccgtcatc gccgaacctt gttgtgtatc cacgaactag 300  
aatacacaca agaaatgtgt ttctgcccc catcgtgttg ggagagttga gtttatcatc 360  
agagtaagga ccgcgagctt aaatctgtag gtgtcatttc ataagttatt tgatgtagca 420  
ttgtgcttga acttgtgtaa tt 442

<210> 37105

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-E8

<400> 37105

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tacaactaag gttttggttg caatggaatg gatggacatg gttgggaagc ctaagagaaa 180  
ctccaaaaat atttgctatc aggtttaaaa cctgagatct ggtgttatat atgcatctgc 240  
agggcatacc ttgcggcctt caacttcaaa attgttatcc ttctggccag tttgtaaadc 300  
tggtggctgg ttctaatttc actcccatgt tttgtttcca ggatttgaga aggacatgtt 360  
caagctgaag aacgagaagc aagcaatgga gcaagaagcc tatctttggt ctgtctctga 420  
tatgtgatcc caactgctgc tccttacgag aggaatacag 460

<210> 37106

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-E9

<400> 37106

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ccttctctgg gttttaggag aattcaattg ataagttcat tgtaaatagt aagcagcaag 120  
tgcacgcgat gaacgggggg tggtcggca caccttgatt tctttctttc tcaatctaac 180  
gctctcgtgt ttcttcttgg tcacactgat cagagagcag gttttccatg acatgatggt 240  
ggcgctaata ttgctgggc gtgtgtgccg gatatcgca tgcagcaga tcggcatgaa 300  
atgctgtcga aaaggagaa agccacaaac ttcaaaccag actatgatat tgatatccat 360  
atgaagggtct tagctatgag tgggcaag 388

<210> 37107  
<211> 469  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-038-Q1-K1-F1  
<400> 37107

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ttccccctcc cgatctcccc caatccgacc aaaccggcag agccgggggg cgcgcatggc 180  
gctgcgacgg gcgctectca gatcggcaga gatctctttc gaacgcaagg ctgcaattga 240  
gtacattcat tctttatcaa gggcacagcc tgctcgttct ctcaatggtg ctggcctttg 300  
tctgctagt agatcactta gcaccaggc cgnactacg tcaagcacac cacagcctnc 360  
gncttcccc cccctccag agaagactca ctttggtggc ctcaaagacg aggatcgcat 420  
ttcaccaac ctctatggtc tgcatgaccc ttttctgaaa ggcgcgatg 469

<210> 37108  
<211> 359  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-038-Q1-K1-F11  
<400> 37108

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gtacatggcc tgctgcctca tgtaccgtgg tgatgtggtc cccaaggatg tgaatgctgc 120  
 tgtggccacc atcaagacca aacgcaccat ccagttcgtg gattgggtgcc cgactggctt 180  
 caagtgcggc atcaactacc agcctcctag cgtttgtgcct ggtggcgacc tggccaaggt 240  
 gcagcgtgcc gtgtgcatga tctccaactc caccagtgtt gtggaggtgt tctcccgcac 300  
 cgaccacaag ttcgacctca tgtacgcca gcggtgcctt gtgcactggt acgtcgggtg 359

<210> 37109

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-F12

<400> 37109

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 aggcactgga tgtgaaggaa ggtggagtca agaagaaaaa aaagaagcat cagcttgaag 180  
 agtcgtctca gattgagcac gatgagctcc acaaaggggg aaactctggc ttaccagctg 240  
 atcacaacaa tgagcttatt gaagctggca aggtgggaga tgaagaaagg aatctacatc 300  
 cagactacga ccacctcaca ccggcggagc gacgctatat agaacagaag cagaagatcg 360  
 acatgcaaaa gctggccaaa gttgccaaca agtcacacag gggaccgtat ccagggactc 420  
 aaccagtatc tggcgaacct cagcgagcac tatgaca 457

<210> 37110

<211> 155

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-F2

<400> 37110

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 ttctgtctca tctgggggtt cagttttttt ttcct 155

<210> 37111

<211> 445  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-038-Q1-K1-F3  
  
 <400> 37111  
  
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 atatgtctag gtgtcccagc ggggtcaaggc tatggtttga ctgaaacctg tgctggagca 120  
 gctttcactg aatgggatga cacaagtgtg ggtcatgttg gtccaccact tccttgctgc 180  
 tatgtgaagc ttgtttcatg ggaagaatgt gggtacaaga tttctgatta tccgatgccg 240  
 agaggagacg tcgtggatgg cggacacagt ataacaaaag gctatttcag caatgaagca 300  
 tagacgaatg aagtctacaa gggtgacgag aggggtatac gctgggttcta cactgggtgat 360  
 attggccagt tccatcctga cgggtgcctt gagattattg acaggaaaaa agatatctaa 420  
 agcttcagca cggagaatat gtgac 445

<210> 37112  
 <211> 459  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-038-Q1-K1-F5  
  
 <400> 37112  
  
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 gcgactggcc gatcgctcgc cgggggtatac tccgccagag ccacccgccc catgcctcta 120  
 cgcgcggcgc caccggcgcc ctgcgcgggt gccgccgcgg ccgagcctgc ggccgagcac 180  
 gtgcggaggg tcgtggcgga gttcgacccg gcgggtccgc tggactccgc ggtcacgccg 240  
 ccgagcgggt ggtacaccga cccggatttt ctccagctcg agatcgacag cgtcttcttc 300  
 cgcgggtggc aggctgtcgg tcacatatgg caagtgaaga acccaaata tttcttcaca 360  
 ggaagggtgt tacgtcttgt ttcgatgcct cagtagttcc agttagtagt aattttgcta 420  
 cgctttcgt acatatataa ataattttgc tacctcaaa 459

<210> 37113  
 <211> 450  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-F7

<400> 37113

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cgagccgctc gacggctcca cgccggacgc ttctgacaac gctacttcg gcgacctgct 120  
ctcccagcgc ggctgtctcc actccgacca ggcgtcttcc ggcggcgggcg gcggcgggcg 180  
cggcgcgcg acggacggcc tggtcagcgc ctacgcgtcc aacgccggcc agtggggggc 240  
cgacttcgcg gcggccatgg tcaagatggg cagcatcagc ccgctcaccg gcacggacgg 300  
cgagatcagg gtcaactgcc ggagagtga ttaattattt attacagcca cgttgattgc 360  
atttgctctg ggggtagtgg aatagcgtgc atattttgca aagaggcaga gaagaattga 420  
aatggagcct aagctcatat gtatacaaat 450

<210> 37114

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-F8

<400> 37114

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gctccctect cgcgcgtcgc gatgaaagag gcgcaggctt gagcgagagg tccgcgctgg 120  
acaccaccgc atgctaggga ggcagggagg ggagccgagc cgaggacgat ggcgctgggc 180  
gtgttgttcc acggcgcgca gctagcgtg gatctggcgg tggccgggat gtcgctggcg 240  
gtggcgctcg ggttcttcgc cctcatcact accttgctct gctccgcggc gttcctccac 300  
cactccaagc ccgccgcgta gtcatagcct ccacagcgac caacgcgtct caatctctgg 360  
ggatcgtaat actgttgctg gtataattcc tccacatcaa ttgcagagga ggtgctttaa 420  
tcaactgctt tatagcactt acagatgcaa agagtagt 458

<210> 37115

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-E12

<400> 37115

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cgtgtgctcc acgccctcga gctctctccg ctgccgccaa tgtatcctac cccgcctcaa 120  
ggctgcaatg caagaacctg tcctcccaac agagccctct gaatgtgact gctacctgtg 180  
cttctttcgc tgagaagagg ctggttcttg tccatgccac ggcagagggt tctgaggctg 240  
gtgcggagca gccagaagag ccgaaaccag cgaccaagat cgaggaaatg ccgctcgagt 300  
cgaagcagaa gatgatcatg gagcaaagag cgcggatgaa gcttgccaag aaactg 356

<210> 37116

<211> 319

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-038-Q1-K1-C9

<400> 37116

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aaaggcacia gccgacatat ggcggtcag cctctcctac ctcacgcccc tgtcactgag 120  
gtgcgccgtg gagcttgga tccccacggc gatctaccgc catggcgggg ctgcctcagc 180  
cgctgagctg gtcacggcgc tgtctctccc ctccactaag ctgccgttcc tccgccgnct 240  
gctgcggctc ctgcgccgt cgggcggtgt caccgtcgac aagcagagca cggaagagga 300  
gcggtaccgc atcagcccc 319

<210> 37117

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-D1

<400> 37117

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ggaagcccat tggctcctct atgggaaatc catggatcta catgtaccct gagggcttga 120  
aggatctcct tatgatcatg aagaacaaat acggaaaccc acctatctac atcacggaga 180

acggaatcgg ggatgttgat accaaggaga cacctctacc catggaggat gccttaaagt 240  
 actacaaaag gctagattac atccagcgcc acatcgctac tcttaaggaa tcaatagact 300  
 tgggatcaaa tgtgcaaggc tacttcgctt ggtctctgct ggacaacttt gaatggttcg 360  
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 acat 424

<210> 37118  
 <211> 432  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-038-Q1-K1-D10

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 tctccagtct ccaccggcag cgccaatagt aatagccatg ggctccaccg ccggcgacgt 180  
 ggccgcggtg gtggacgagg aggcgtgcat gtacgcgatg cagctggcgt cgtcgtccat 240  
 cctgccccatg acgctgaaga acgccatcga gctgggcctg ctggagggtgc tgcagaagga 300  
 ggccggcggc ggcaaggcgg cgctggcgcc cgaggagggtg gtggcgcgga tgcccgcggc 360  
 gcccgcgac ccgctcgncg cggcggccat ggtggaccgc atgctncgnc tgctcgctn 420  
 ctacgacgtc gt 432

<210> 37119  
 <211> 370  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-038-Q1-K1-D11

<400> 37119  
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 taaggactaa tgaagttact ggtatgcacc taggacattg gtttagttga tttccgttct 180



aaaatggtag tgaatgactg aaacttgcca gtggaaacca gttcataagg tggcaagggg 240  
 aggcattggtg agtccggccc tttccaatcg cctaggttta ggcacatcag cacatgtaag 300  
 gtgaggcaag gtgatgccat atgccagagc gtaacaaggn gcttgcccag tccaccagac 360  
 agctcatatg 370

<210> 37120

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-D12

<400> 37120

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 ctctgaggct accctcggca cctacaaggg tgatgctgcc gccgacaccg agagcctcca 180  
 cgtcaaggac tacaagtact gagttgcttc tctttgcatg cccgttttgg aactcctgcc 240  
 tacgagctaa gttgctggagt gtggtttgct cgtttagagct tattttcgga catccaaaaa 300  
 acatgcttcc tatgtgggat gatggctatc tttatatattg tatgttagtt agtctctttg 360  
 ctgttaaatt tcgtgtcagt tggctctgcc gatggagaat cgagcagtc tctttatttg 420  
 gtctatcaac tatgctgtaa tgctggctat gtatcggaaa a 461

<210> 37121

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-D2

<400> 37121

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 ctggagtctt tggatgaat attccgtata cctggaatga cggccacgga tacatcttca 180  
 aatgggtggc tcttgatca gggctttttt gtgcctttat atttgtctcc attgttgctt 240  
 acgcacgaca caaggggctc gtcggatcct gaatagctga aataaccgcg tacttgcttt 300

cctcaactgt aaatttgagc cagtgagcat cgactttgcg gggtgattca tctgttgtag 360  
 caaattcggg agtatcaaat tggggatgtc gaataggaac tgtaatagga aaaagttaat 420  
 gcaaaagaaa tatgctatga ttg 443

<210> 37122  
 <211> 467  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-038-Q1-K1-D3  
 <400> 37122

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 ggaactgtct attcagagct gttgctgac aagtttatgg agacgcagaa gcttatgaca 180  
 tggctaggca gatgtgtgtt gattatatgg aaagggaaac ggatcatttc tctcaggta 240  
 taactgaaat tgaaagggtt acattatact gtaagaggaa aaggagagat aagggttatg 300  
 gcaacaatgt tgagatccag gcatttgac agatgtacaa tcggcccatt cacatatatt 360  
 cctacagtac agagcccatt aatatttttc aaggaagcta tctcacagac gttcctgcaa 420  
 ttagattaag ttaccatcat ggtaatcatt acaattcagt ggttgat 467

<210> 37123  
 <211> 287  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-038-Q1-K1-D4  
 <400> 37123

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 ttcaccagtg gcttcttatg tttaccggag aattttcaag ggtggggaaa tcaatataaa 180  
 actgacaatt ctctggatta tgcggcatat ttctcacaca tgctttgggt tgatgacct 240  
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<210> 37124  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-D6

<400> 37124

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aactctgggt cggatcaccg gtggcatgaa ggtgaaggct gaccgtgacg agtcgtcacc 240
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tgactgcac attaagcttc gtgccaccgg aggcaacaag accaagaccc ccggacctgg 360
tgcccagtct gccctcaggg cgcttgctcg ttctgggatg aaaatcggac gcattgaaga 420
tgttaccccg gtcccccagg acagcactcg cagaaagggc ggta 464
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<210> 37125  
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 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 37125

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tgcccgagag gatggtgatg agcttctgcg gcggcgtgac ggcctctgcg gggcaccagt 180
ggactacgct gtccggcagc ggcgctgaag acgtccgct catgaccagg aagagcgtcg 240
acgaccctgg cagggccgcc ggcatagtcc tcaacgctgc cacctcgttc tggcttcccg 300
tcccggccaa gcgtgtcttc gacttcctcc gtgacgaaag ctctcgcagc gagtgggaca 360
tcctctncaa tggcggcggt gttcaagaga tggtcaca 399
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<210> 37126  
 <211> 338  
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-038-Q1-K1-D8

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ggaaaaagaa cagaaatcaa tgctgatcag tgatcactaa agccagtatc tccctaccag 180  
atcgtctgaa gcgcgaaaga tgagagaacg cagcggctgc tgacaagtga cgacgactac 240  
tgccacgaga agggcatcga cgacgagggtg ccgncgtccg aagagccctc gccgacggcg 300  
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<210> 37127

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-D9

<400> 37127

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cagaggggacc gccgcagtga gagcttggcc aagaggaggt ctaagcttct tgcgcccgc 180  
aaggcttctg ctgccacctc tgcctaagaa tgatcagtgc tttgagatgt tttcaaggcc 240  
tattttgtta cagcttataa gtaccttatg ctgccctggc tgtgttgcat cagtcgaccc 300  
tccctactta gacttatgag taattggtgc aattttgtat ggacatggta cttgcttgtc 360  
cggatTTTTT gagtaccaa ggttgatat gtggtttaat ctggg 405

<210> 37128

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-E1

<400> 37128

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 gaggtgccag cggaggtccc ggcggcccag gtggccgagg cgccaaggc gaagaaggcg 180  
 cccaaggaga agaaggcgcc taaggagaag aagctttccg cggcgaagaa gccggcggcg 240  
 caccctccct acgctgagat gattgtagag gcgatcgctg ccctcaagga gaggaagggg 300  
 tcgagctcgg tggccatcag caagtacgtc gaggggaagc atggcggcaa gctccccacc 360  
 aacttccgca agcagctcac tgtgcagctg aagaagctcg ctgccgccgg caagctgacg 420  
 agggatgaaga ac 432

<210> 37129  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-038-Q1-K1-E10  
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 tgaaggagct ggagagcctt tgcaacccca tcatcgccaa gatgtaccag ggcgcgggtg 180  
 ccgacatggg tggcgccggc ggcatggacg aggacgctcc ggctggaagc ggtggccctg 240  
 gcccgaagat cgaggaggtg gactaagcgg attgtgtcag tctcgtgtgt ctgctgcagt 300  
 ggctggctgg ccagtcgct gtcgattta tcgtcgtcgt cgcggtgtat ccgcgttaga 360  
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 cgggtt 426

<210> 37130  
 <211> 281  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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tggttcggnct cgacaatggc ttcgtccatc cccccgcggt gaaggtcaag gacccagcgg 120  
 gcgatccttc cgcggtcagg gagagcgtgc ccgtggagtt accagccaaa aacgaggacc 180  
 gncatcccat tcccaacccc gcgggcgaca acgtggctgt ctcccctgcg gaggaccagc 240  
 gccagatccc ggggctcgag aagctgcagg tcgncgacaa c 281

<210> 37131  
 <211> 461  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 37131

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 ctccgtccgg ccgtctgccc aggctgcctg cccggcgccc tggcctcccg gtcgtggct 180  
 ctctgcccag gcgccaggcc gcaggctcca ccgcccaga ccaccgcga accagtccgc 240  
 tgcaggctgc aggccaccgt cctccagtt cgcgggtcag attattaacc attcagatac 300  
 ccagctccg cctagacgcg aatcctccgt cactatgggtg gcagcgggtg ccctgccgag 360  
 ccaagcacag gccgtgcttc ggagccggct ctgcgacccg gtcttcatcc actccgncct 420  
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<210> 37132  
 <211> 431  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 ctattcctct ggttccacaa acaactggca caagtgggtt ccgttcctta tgacaaacgc 180  
 gtgctgtgaa gcctgcgcaa acctgaaagg cgcgtttctg gtggctgtgg tgttcctagt 240

catgtgcttg actataaccc tgttcttcgc caaggaagtg ccctacagag gaaaccagaa 300  
 cctcccaacg aaggcaaacy gcgaggtcga gactgaacct tccggccac tcgctgtgct 360  
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 ctggctctcg t 431

<210> 37133  
 <211> 365  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-038-Q1-K1-B3  
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 tactagtgcg accacttacg ttggatgtca ggctgtaatg accgaggaat atgtcacaga 180  
 aattactctg gtgaagcact ggagtagtat tcattctgcc tagattcata tacatatgca 240  
 gaaacaaacg agtacggaag acacatatat gactattgtg tcatcagtcc atgaccacca 300  
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<210> 37134  
 <211> 221  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-038-Q1-K1-B4  
 <400> 37134

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 aagctattcc tttggttccc acaacaatt ggtccaaatg gtttccgac cttatgacaa 180  
 aacgcttact gagaaacctt ggcaaacctt aaaggccct t 221

<210> 37135  
 <211> 429  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-B5

<400> 37135

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ttttagtacg acgacttatg ttggttttca ggctgtaatg accgaggaaa tgtcagaaaa 180

atttcgcggt ttgcctggag tagtggtcat tgtgcctgat tcatatctat atccagaaac 240

aaaggagtac ggaggagaca aatatgacaa tgggtggcatc actccaagag caccatctga 300

tcattatagc agaccatcta gaactgacag gaaccgtaac tactgaggaa actaccagga 360

tggccattca cagtaaggaa attaccagaa caaccggtct tcaccagaac gtggttacct 420

agaacaacc 429

<210> 37136

<211> 65

<212> DNA

<213> Zea mays

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<400> 37136

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tgggc 65

<210> 37137

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-B7

<400> 37137

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atccaaggga aagcagagaa ccgtgtgtgg aggaccaga tgaagaagaa gaagaagata 120

ataaaagacc taaacataga caatttggga gggagctcag cagatctggt acatcacgtc 180

tacagcctca gacatttatg tttcagagtt caactgttac atatggtggt ccaaattggag 240



cctgttatac atcttcaacg actaggaaga ctggtgcaaa cggagtaagt atatatcatc 300  
atctcatgaa tgtttttctt catctgcgc agtttatccc tttcccagac cccacacgtg 360  
gaagctttgg cactgggtct gccccttttt tttgcatatt tgtagggtga agggcaagcc 420  
tggtgaagtg gtgagagttg tctcattgag tactcat 457

<210> 37138

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-B8

<400> 37138

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ccgatcgatc agtgcaggag ggcagcagcg caatgaatta tgaatgcgat gtaccagcgc 180  
gtcgtattgg cacagttaat ttgcccatta cccagaaca tttcgccggg ggtaaataat 240  
cttcgggtcg gtcacgggag cgagagtgag aaaaaaaaag taagagtact gtatagccag 300  
ctattcatgt acttgctgcc ttggccttcc cttcatcggt atacgggtggc gtcgctttat 360  
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<210> 37139

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-B9

<400> 37139

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aaaaatgatc ctacagtcta ttatggcact ggcatacatg ggcattgaaa aaataacggc 180  
gtagacatta tgaacaagat attgactaat gaaagctatg ctatacatat gaggcacagg 240  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-038-Q1-K1-C1  
  
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 ggggtgcaatg gaggtctgat ggactatgcg tttagagttca tcatcaacaa tggcggaatc 360  
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 <212> DNA  
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 <223> unsure at all n locations  
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 ctgagcgggc ttggaggtag cccgcgcgcg tccgacgcgt cggcagcgct ggcgcacggg 300  
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 tggggg 365

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 <211> 372

<212> DNA  
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 ctgagcttga agggcaaacc gcactttgct gaattcaacc ttgtcccggc gggttggggg 240  
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<210> 37143  
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 <223> Clone ID: LIB3069-038-Q1-K1-C3  
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 ctgatatacc gtctgttgct gctgttgta gttctcgtga atggcctctt atctcgaaat 360  
 acagagcatc tgtccgcacc caatcaccaa aaatggaaat gattgactcg ttgtttaaac 420  
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 <223> Clone ID: LIB3069-038-Q1-K1-C4

<400> 37144

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taaagaatct tggccgcaaa tgaatgaaga catcgctaaa gccagtcctc tgatttcagc 180

tgaagccata cctgtactac aaatgcttat gaagacatgt cctcccagtt ttcacgagag 240

agccgatagt ttgcttcatt gcttgcttg ttgcttgaca gtgaccatca ttcgtgggaa 300

taatctgaaa cagacaatgg ggggtacaaa tgcattttgt tgcttgcaaa taggaaatgg 360

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<210> 37145

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<212> DNA

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aacctacacc aacctcaaca ggcttgtgtc ccagggtcatc tcatccctta ctgcctccct 180

gaggttcgat ggtgctctga acgtggatgt taacgagttc cagaccaacc tggtagccta 240

cccaggatc cacttcatgc tttcttcgta cgctccagtc atctctgctg agaaggccta 300

ccacgagcag ctctctgtgg ctgagatcac caacagtgcc ttgagccat cttccatgat 360

ggccaagtgc gaccacgcc atggcaagta catggcctgc tgcctcatgt accgtggtga 420

tgtggtcccc aaggatgtga atgct 445

<210> 37146

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-C6

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 <213> Zea mays  
  
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<210> 37148  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-038-Q1-K1-B11  
  
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tgtggggcca caacggctct cgccggagcg acgagatgga cacttgagat ccgaccggat 240  
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<210> 37149  
<211> 360  
<212> DNA  
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<223> Clone ID: LIB3069-037-Q1-K1-H4  
<400> 37149

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cccgcggtt cggcttcgtc accttctcca cggaggaggc gatgcggaac gccatcgagg 300  
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<210> 37150  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-037-Q1-K1-H5  
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<210> 37151  
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<212> DNA  
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 <223> unsure at all n locations  
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 ctactgatgc aagtgaaatc agccttgatg agatcaagga tcgggctcgc taggcatcat 180  
 gatcatgcat catggactcg gcctactact gtggatttgt atgccattat agacttggtg 240  
 ctgtgaaaga ctgcttgatg atttgcggtt ttgttgctgt gtaaaaaaag gtcccatggc 300  
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 tcanatggga accagcaacc ggtgcataaa gaatacgaga tgagaccaca ccacttcttc 180  
 cagtcaaggt ggaggangac gaggggtttc atgagttcaa tggagcttca ttctctgggg 240  
 cagttttcaa tctgtcgacc accatagttg gggctggaat tatggctctt ccagcaagta 300  
 tcaagatgct gggcatcatc ccgngattc tgatgatcat ccttgtggca ctgctcacag 360  
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 ggttgat 427

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 taggagaaaa gaagaaaatg acaagagcaa ttttctcgg agtagaacag aagggaaacg 180  
 acacttggtg cagcaccttg agacggagat tgagaaatta tccatccgat ccagcccact 240  
 tggtaaagac aggcagtaca ataggtactg atttttcaag cgtgaaggaa ggctttttgt 300  
 tgaaactgca gattccagag aatgggggtta ctacaacact aaggaagagc tttgaaacgg 360  
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 atcaaaagat a 431

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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 37155



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tgtcgtggat accatttgcg cttncctttc ccattactaa aaatattatg gtcacaattt 180  
gcactttaag ttataatgca gcacagtgc tctactgtctg agtctacaac aacaacaaca 240  
aagccttttt ggtccaagca cgttggggta ggctagagat gaaatcccat atgaaaacct 300  
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<211> 327  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 37156

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gcacattcag aggatttatg cgttggcagc agcctgggca gcggcatccc gcttcctttg 180  
ctcttctatg atgctcagct tgattccctt gcccttgggc aggctcacc acggcttatt 240  
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ctncacgtga atggtctcaa aagctgc 327

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<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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tgtcagcccc tgcttgccgc tccggggcac catcacgcg tcgggcgacc tgggtcccgt 180

ctcctacatc gccggcctca tcacgggccc ncccaacgcg caggccgtca ccgtcgacgg 240  
aaggaaggtg gacgccgccg aggcgttcaa gatcgccggc atcgagggcg gcttcttcaa 300  
gctcaacccc aaggagggcc tcgccatcgt caacggcacg 340

<210> 37158  
<211> 312  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-038-Q1-K1-A12  
<400> 37158

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atgtcatttc catccctaag acaatggaga actacaggct gctttatgac accaagggcc 120  
gcttccgtct tcaccaatc agggatgagg atgccaagtt caagctctgc aaggtgaggt 180  
ccgttcagtt tggccagaag ggcattccct acctgaacac ctacgacggc cgtaccatcc 240  
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<210> 37159  
<211> 338  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 37159

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taaagaatct tggccgcaaa tgaatgaaga catcgctaaa gccagtcctc tgatttcagc 180  
tgaagccata cctgtactac aaatgcttat gaagacatgt cctnccagtt ttcacgagag 240  
agccgatagt ttgcttcatt gcttgccctgg ttgcttgaca gtgaccatca ttcgtgggaa 300  
taatctgaaa cagacaatgg ggggtacaaa tgcatttt 338

<210> 37160  
<211> 270

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-038-Q1-K1-A4  
  
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 cgccttcaag aaggacaccg gcgacaccag ggagaccccg ggcacgatg tctgcaagg 180  
 cctgctgggt gacagggccc agatcagcat ctacgacccc aggtgacgga tgaccagatt 240  
 cagcgggacc tagccatgaa caagttcgac 270

<210> 37161  
 <211> 436  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-038-Q1-K1-A5  
  
 <400> 37161  
  
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 tactatagca gagatgcctc ccactgaatc actgatcggt gatcagtggt ccaatagttt 180  
 ggcaagtgtt gaatcaattg aacagattgg cttcatggcc ttttccctgt atttatgtgt 240  
 agtcagggtc aattcttttc tggatgatgag cgcaagggtta tcgtagatga ctgcggtca 300  
 cggcaatatt tgtgatattg aggcattctgt ggactatggg ttaatttcag ttatttggtt 360  
 tctttcacct ttcagaactg ttagcaagaa cattctgggc caggatgctc gaacacaact 420  
 ggctgtatgt acattt 436

<210> 37162  
 <211> 465  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 37162

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gccaaaaggt accttgagga tgtgattgcc cacaagcagg ccatcccgtt ccgcagggtat 180  
tgtggcggtg ttggacgtac cgctcaggct aagtctcgtc actcaaattg gcagggacgc 240  
tggcctgtca aatctgctag attcattcta gaccttctca agaattgctga gagcaatgct 300  
gaggtaaaag gtcttgatgt cgataccctc tatgtgtcac acattcaagt gaaccaggct 360  
cagaagcagc ggcgaggac ctaccgcgct catggggcgca tcaaccctta catgtcctnc 420  
ccgtgccaca tcgaactcat cttgtcagag aaggaagagc ccgtg 465

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<211> 455  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-038-Q1-K1-A7  
<400> 37163

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aattcctgtc gaaccttccc caaccagtcc ctaccgacg tccgcagatc cttcgatccc 180  
cactccctct agccccctgt ctccaggggac gacaccgtcc acaccaggct ctggtggcac 240  
tccatcggtg ccagccccag caacgccagg tgactcagtt agcccggtaa caaccggggg 300  
ccaaggttcc aacaagtcgt cgagtccagc ctgcgagagc agcagctcct cagtagacag 360  
tggtggactg tcttctgggt caaaggcatg cattggggta gtcgttgcca ttcttgtgct 420  
tagtttggtt ggagcagcat tttggtacaa gaaga 455

<210> 37164  
<211> 349  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-038-Q1-K1-A9  
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gccacggcgg ggaagaagcc caaggccgag aagcggctcc ccgcgggcaa gtccgcaggc 180  
aaggaggggtg gcgagaagaa ggggaagaag aaggcaaaga agtcggtgga gacgtacaag 240  
atctacatct ttaaggtgct gaagcaggtg cacccggaaca ttggcatctc gtccaaggcc 300  
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<210> 37165

<211> 192

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-B1

<400> 37165

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gccctgctcc acagaaagct acagctgaag atgatgagct tgctgcactg caagctgaaa 180  
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<210> 37166

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-H2

<400> 37166

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gatgaagtat gacctttaca aggtaaaatg ggatcaatcg aaccgcaagt gtctgatggg 180  
gattaagagc tctattatgg atacaatcag gggagcattc ccagcatgta ccaccgctac 240  
agagtatctt agtaagggtg agagtcactc tactatctct tcaaaggctt atgcatgcac 300  
aataattgaa aggctactta ccgataaata cactggcggg ggagtaagag agcatatatt 360  
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<210> 37167

<211> 423  
 <212> DNA  
 <213> Zea mays  
  
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gaagtccgat cctatgggttc tgtgtacaat ggaagaatct ggtgagcata tcattgctgg  180
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-037-Q1-K1-G10  
  
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agaagcgcag ctgcggccat ggacgccacc ggcaactggag ctggagggaag ggcgaagaag  180
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gccggggtcc agttccccgt cggccgcata gggcgctacc tcaagaaggc ccgctacgcg  300
cagcgcgtcg gcagcgggtc cccgtctac ctgcggccg tcttgagta cctcgccgct  360
gaggtcctgg agctcgccgg caacgctgcc aaggacaaca agaagacgcg catcgctccg  420
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<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-G11

<400> 37169

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agcacgccaa agaaacccca agagaagtgc gatgctggtg ttcctgagac gtcacgctct 180  
tattctgctg cagtccctgc tgggtacaagt agcaagcggc atgctactag gaagtgggaag 240  
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tgcaagggat caccgcccgt gcctgtggct ccagaggaga ggtagccgat gagctacaga 360  
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<210> 37170

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-G12

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ttaatatgtt tctaacgtgt tttatcatcc tataaactct taatcttaga catatgtgat 180  
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aagaatactt ttttattata acctttgcgt gtaatgtttt cgaaaagtga atactctttc 360  
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<210> 37171

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-G2

<400> 37171

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agcatctgat atctatgccc acacctagat caacctgtct gttgccatac acgcagaggc 180  
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gaaatcacac gactactcac acaatgatga tgtatctagc gctgagaagg ctgctggtaa 300  
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<210> 37172

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-G3

<400> 37172

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gagaagactc acatcaacat tgtgggtcatt ggacatgtcg actctggcaa gtcgaccacc 180  
actggccacc tgatctacaa gtcggtcggt attgacaagc gtgtgattga gaggttcgag 240  
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aaggccgagc gtgagagagg tatcacaatt gatattgctt tgtggaagtt cgagaccacc 360  
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<210> 37173

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-G4

<400> 37173

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 caaggccgag cgtgagagag gtatcacaat tgatattgct ttgtggaagt tcgagaccac 360  
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 tactggcact ttccaagct 439

<210> 37174  
 <211> 201  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-037-Q1-K1-G5  
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<210> 37175  
 <211> 395  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 gccgtggcgt tcttggttgg ctctggctcc gnggggatcg atgggggcgc agcggctccc 300  
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acgaagcacc gtctgcactc ggacgatgtg cccta 395

<210> 37176

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-G7

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acagttgaac atgtgatgga gcctggaggc aagtcattct caaaaaatac tactttctaca 180

ctaaactgat gttgcaacgc gcgcttgacg tcgagatggc catgtcgctg ctcggtgctcg 240

acgtggcgta cttgattggc tatggattcg aggggatcga tgg 283

<210> 37177

<211> 85

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-G8

<400> 37177

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gcgatgtgta cacacatgtt ctttg 85

<210> 37178

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-G9

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ctcgaggctg gtttctccgg ccaactcctcc tcccctctga agcccgcggc ctgcgccagg 180

cggcccggcc gcatgttctg cgacccctgc gacgacggcg acgagctcca cggccgccac 240

cactacctcg acatctgctt ccgctgccgt aaactcctgt ccggcaacag agacatcttc 300  
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gacgaggcgc gagagcagcg gctgaagcag acggtgcggg ccgagcagca gcggcagcgg 420  
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<210> 37179

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-H1

<400> 37179

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gtgagacgga ttctattatc gttgatcctg aaaatattgt tgccaggctt agacatgatg 180  
agaggaagaa aattgttaac ttattgggtca atgggtcatgt taccgatggg gatcttatgg 240  
tcgttcccat tggtggaatg ggaggactag gcaagaccac actcgctcag ctcatctaca 300  
acgacctca ggtcaaggag cactttcatc tactaaagtg ggtatgtgtg tcagatgatt 360  
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cctatagaag cttcaggaac a 441

<210> 37180

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-H10

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ctctctggtc accgtgaccg acgaggagtc gaggcgcac gagcagcagt cggacgagca 180  
gaccaaggcg gagatcatgc aagtgctgcg gaagatgttc cccggcaagg acgtcccga 240  
cgccaccgac atccttgtcc cgagatgggt gtccgacag ttctacaagg gcaccttctt 300

caactggcca gttggcgta accgctacga atacgaccag cttagggcac cggttgggag 360  
 ggtatacttc accggtgagc acaccagcga gcactacaat ggctatgtcc atggagccta 420  
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 <223> Clone ID: LIB3069-037-Q1-K1-H11  
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 <213> Zea mays  
 <223> Clone ID: LIB3069-037-Q1-K1-H12  
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 cctgctggtc accgtgaccg acgaggagtc taggcgcata gaacaacagt cggacgagca 180  
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 cgccaccgac atccttgtcc cgagatgggtg gtccgacagg ttctacaagg gcaccttcta 300  
 caactggcca gttggcgctc accgctacga atacgaccag cttagggcac cggttgtgag 360  
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tc

422

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<213> Zea mays  
  
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aggatgccta ggttgaccct tgtttttattc attcaccccc gttttgcctt cccgggatag 120  
atagcttcat cagacaacac agcctagcta cacaatgtgc agacgacgcc caactaaaag 180  
ctcaatctga caacagagcc acggctccca gagacgtcgg cacgtcgcac tagtcaagca 240  
gcgctaggat gttgtgctta ggcgcactcg ctgaggggac tgcaggccgt gacctagcac 300  
cgctgctgtc aggctcgaac cgcaggcctg gcaagtccgt gtcaccctc gtgctctgct 360  
tactgatgac atacagcata accaataagg gaacagtagt c 401

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<211> 435  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-037-Q1-K1-E12  
  
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gataatgggg aatcttttct atcacaggat gacatgtatc ctagggacaa cttggggcga 120  
tgcattggatg ctagtaaagg ttttggtttt tctgaggttg ccaaagcacg tgcagggtgca 180  
gccaaagttag tctgttgcca cttctcatct gatggtaagc tgcttgctac tgggtggtcat 240  
gataaaaagg ttactttgtg gtgtacagat tctctgaagc ctaaatcctt cctggaagag 300  
cactcgtatc ttatcactga tgtagatatt agcccaagca tgtcgcgcct tgcaacatac 360  
tacttcgaca aaactgtgcg ggtttgggat gcagataaca ctgactattc actccgaact 420  
ttcacgggnc cattc 435

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 <213> Zea mays  
  
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 <400> 37185  
  
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 ccccgacgcg caccatgccg tggcggtccg gtccacgggc gaccgcacgg tgctggacgg 180  
 cgtggagctg ctggggcacc aggacacgct gtacgcgcac gccatgcgcc agttctacac 240  
 ccggtgccgc gtggcgggca ccgtcgactt cgtcttcggc aactccgccg cggtgctcca 300  
 cgacaccgtc ctcgctcgtg tggcgggca gctgcggccg gagaaggcg agaacgacgc 360  
 cgtcacggcg catggccgca ccgaccggc ccagcccacg gggatc 406

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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-037-Q1-K1-E4  
  
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 gacagcgagg aggagaggag gcgccgcaag gcaaagacct tcggcaagtc gcgtgcgccg 180  
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 ggcagctctg gttaatggga ctccctgaag ctttggcccc cggagtagac gtgtctgtag 360  
 gagtgtggtt tgttatatct agattatctg cagtagctta gtccatctaa atgaaatgtg 420  
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<210> 37187  
 <211> 402  
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<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-E5

<400> 37187

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aaggaatgga acatcaaaat cttcgtccag tgttcgagat gagaagagcc aagagtttcc 180

ggctagtgtt aataggagtg gacatggtca tagatcttca tttgagcaaa accgtgcttc 240

gacagctctt ccgagcaaag ttgcacatgc agcttcaagg atatcctctc aggcatacc 300

tcagcccccg aaggtagaaa caccagttcc aaagggtggtt ttacctctc agtcacagaa 360

atcccccgcc aaagttgatg caacaccggc taaagttgag aa 402

<210> 37188

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-037-Q1-K1-E6

<400> 37188

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ccatggaagg tgatgctaata gcaaatgac catagaaaga atgtgttatt tgcctctcgg 120

aaccaagggg gatattattg tcttcccatg taggtatatg tatgtgcagt gagtgcgcca 180

aggctctaag gtaccaaacc acttagtgcc cctgcagccc catctacagg cagcctgttg 240

agagtgcct cgagatcaaa gtgaacaaca aatctgaaga ttagtagctg acgccctaata 300

caccaccgct cccagagctg cgggtgtagtc gtgatcaaat tcaggtctga tgtattatat 360

ggctctaatt tgcgagactt caggccttcc ctcaaggtn gntctctcat ttgagcaacg 420

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<210> 37189

<211> 228

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-E7

<400> 37189

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gcggcgggga tgaaggcgta ccacgagcgg gtggtggacc actacaacaa cccgcggaac 180

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<210> 37190

<211> 330

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 37190

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gtcgccgtcc tggcgggcaa aacctcgcgc gaagcgctc tctctcactc cgttcgtctc 120

accccaaatt agcgagacct agaagaatct tgaaagtgat cgctccagcg cgtgccgccg 180

tcgtcttctn ctntctcttc tcatcctnct ccacggaaca gacgaggact ggcctagcca 240

agccacgcca cgccaagagc gtatactgta cgtacatcgt ttgccgagca tgtggcatag 300

tactactata cgtatatata gaaaaaaca 330

<210> 37191

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-F10

<400> 37191

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gacgactagc ggatgctgtt cgacattcag aaagtctaca tcgtgttgat tgaggagctg 120

cctgccaaacg tctctgacct tatgtgatca ttttgaagaa aaacagaact aaatgaacgg 180

tggtgggtgat gatctggtta ggcttggttt tgccgaaata ttgttgggga ggagtgataa 240

ggtcggtgagg gctgctatgt taaagtcgct gtctatggca atatgcgatt tttctttatg 300



ccatgtcatg ggaaattatg tagctgccta cgccttgtgc tgtcgtggtg gttcattagc 360  
atgaatacta aagctctgct ggctatg 387

<210> 37192  
<211> 369  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-037-Q1-K1-F11  
  
<400> 37192

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catgccaaact tctatgacct tatgtgatca ttttgaatat aaacagaact aaaagaacgg 180  
agctgggggat catcatctaa ggattggtct taccgatata ttataggaca tcagtgaaaa 240  
tgttgtaatt attgctatgt caaatcgcgt gtcattatca aaatgcgatt tttatatatg 300  
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attaataca 369

<210> 37193  
<211> 420  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-037-Q1-K1-F12  
  
<400> 37193

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caaattcttg acaaaagcag tggaagaagc atatcgagga gtcgattgcg gtgacggagg 180  
tccatttgga gcacatgtcg tctgtaatga ogaagtagta gtcagctgcc ataacatggt 240  
tctgaagcac actgacccta ctgcgcatgc tgaagtaact gcaattagag aggcttgcaa 300  
aaagcttggg aaaattgagc tctcactctg cgaaatttac gcgtcctgcg agccatgccc 360  
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<210> 37194

<211> 455  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-037-Q1-K1-F2  
  
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 ttcacaggac tcgatcaagt tcgtgcaaga agtgctactt gaagaccgag ctaagctgaa 240  
 ggggatcccc tccgactgct ccagatcat ggtgtggcag tacagcgtgc ccagctcgcg 300  
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 caagaaggct gattactaag ggttcttttt ctctc 455

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 <211> 326  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-037-Q1-K1-F3  
  
 <400> 37195  
  
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 aggggaccaa tgggtcgagc taaaaagttg gcatgcaacc atctatttca tatagcttgc 180  
 ttgccgtcat ggttggatca agggctaatt gaaggttact actgtccaac ttgtcggaga 240  
 ccggtcttat tgtcatctga aaggcaaaga aagtctacaa ctgctgaagt agcatatgct 300  
 catcgaattg ccgaacaact tactat 326

<210> 37196  
 <211> 287  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-037-Q1-K1-F4

<400> 37196

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gaaaataacg aaaggctctc tcaaagtcac cgctatgcat ccgtatcttt catacaactt 180  
gcttgccatt atgtgtacat caattgacta atgatgaggc tacttctgac cgacctgaac 240  
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<210> 37197

<211> 400

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-037-Q1-K1-F5

<400> 37197

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gggcgacggc ggcgggcgct cggaagcccg tggacgtgcc gttccagaag aactacgtgc 180  
cgacgtgggc gcaggaccac atccactaca tcgacggcgg gcgggaggtg cagctgtacc 240  
tggacaagtc caccggcacg ggcttncaga cgcggggctc ctacctcttc ggccacttca 300  
gcatgcacat gaagctcgtc ggcgggcgact ccgcgggcac cgtcacggcc ttctacctgt 360  
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<210> 37198

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-F6

<400> 37198

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tgctccccg cccgtgccac cgcaagggga aatcaacgaa gaggtgtct atgggtcaagg 180  
gcctgatcag agaggttgct gggtttgctc cttatgagaa gcgtatcact gagcttctga 240

aagttggcaa ggacaagcgt gccctgaagc ttgctaagag aaagcttga actcacaaga 300  
 gggcaaagaa gaagagagag gagatggcgg gcgtcctcag gaagatgagg tcggctggta 360  
 cgcacactga catgaagaaa tagagagcat ttcaagttca tggagcctgc cagagattat 420  
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<210> 37199

<211> 393

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-037-Q1-K1-F7

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 gctgattaac caagacaaat acaagtacaa tacacccaaa tacagatttg ttgtgcgatt 240  
 taccaacaag gacatcacag cacaaatcat ctctgctagt atagcagggtg atatggttct 300  
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<210> 37200

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-E11

<400> 37200

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 aacatgatgc agtcccagtt gggtttatgtg ggaagggacc acaaaaatccc caagcagagc 240  
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ctgaggacaa ggatgaagca gatgaggagt ctgacgatga aggcgaggac gaggaggaag 360  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-037-Q1-K1-C8  
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ttgcagctga ctcatcgcat taaacggcca cagagatgtt tatataatgg aactggcctc 180  
atactaattc atcgagctga atgtatgtct ccatagtctt gcacccaact tcgaactcat 240  
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<211> 422  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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tccgccgagg aggaagaagg cgctgctgcc cgccgcgaac gagacggcgt cgggggagcc 180  
tggtgccgtg ggcggtggtg gtggggacgg cggaagctgc tgctacatcc acctgcggag 240  
ccgcatgctg ttcatggcag cacctcagca gcaaccgtcg gcggctccga caccgcggga 300  
ggctgctggt gcggcacagc agggcgngt ggtggcgctc gcggctggcc tctcgcgttg 360  
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ct 422

<210> 37203  
 <211> 429  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 37203

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aatgantaaa ctggtggata caataataaa cttgttatta catgcttaag aagtgggcta   180
aatcgctcat tccgtgtgct ccaaaagcct gaacgtgcac cgattagagc attgagggct   240
tcttcatctg gacggtacct tctaattctg tttcgcgatg ctctgttga agtgtgggct   300
atgacaaaga acccatgat ggtccttggc gctttctttt acagtattag aatggacact   360
gtcagctgca ctttcgccag gtcaaaatgc atcatctaaa cagtcttcaa cctccaagga   420
gcgatcagc                                     429
  
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 <211> 455  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-037-Q1-K1-D10  
  
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agataaactt ttagaaaatg aatgtgaagg agatggagga gatgattcaa agtttggttag   300
aaagtgggtc tgagaaagaa gttgaggaac cattggacaa agaaaaaatg gtcagaaaag   360
agaaaaaagt ttctcttaga aaaaaaggaa aaattattcc cccaaaatag gtgtaaacca   420
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-037-Q1-K1-D11  
  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-037-Q1-K1-D12  
  
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 cggctcgtcgg tcgggtggcg gtgagagctc ggctagccca aaaaaaaca aaaatatgtc 240  
 ggccatcggc ttttgaacct tgcccagcga ccaaaaccgg ccgcctctcc tctctgttca 300  
 tgctctttct aatctctgtt tctaagttcc agaccgctca cccaagaacc ggtcgccacg 360  
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ttataattca tccgactcaa gcaaggggtcc tcactatccg ggagaacgca aggttacagg 180  
gcttccccga ttactaccga ttgtttggcc cgatcaagga gaagtacatt caagttggga 240  
acgcagtggc tgtccctggt gcccgagcac tgggctactg tctggggcaa gcctacctgg 300  
gtgaatctga ggggagtgac cctctgtacc agctgcctcc aagtttcacc tctgttgagg 360  
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<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-D3

<400> 37208

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agtgtctgga taggagggtc gatcctagcc tcgctcagca ctttccaaca gatgtggata 180  
tcaaaggagg agtacgatga gtctggcccg gcaattgttc acaggaagtg cttctagggt 240  
tctgccaaagt tcgtcaagtg cttttagggt ttgccatggt catcatcgct acctagtctt 300  
aagttatgcc cccttcattt gctgagatat gtgtggcaga tttgcatcgt tttggatttt 360  
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<210> 37209

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-D4

<400> 37209

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gcgcgcgtac gacggcaccg acccgctcaa gccatctac gtctccgtcc ggggcaaggc 180  
ctacgacgtc accttcggcc gcggcttcta cgccccggc ggccctacgc ccgtcttcgc 240  
gggcccgcgag gccagccgcg ccctcggcaa gatgtccaag gacgaggccg acgtcttcgc 300



ggacctctcc gggctcaccg acaaggagct cggcgtcctc gccgactggg agaccaagtt 360  
ccaggccaag taccctgctg 380

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<213> Zea mays  
  
<223> Clone ID: LIB3069-037-Q1-K1-D6  
  
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cccccaactc caaatctcct ttcaaaaaaac cttttgaaaa ttctaatacca acttcagta 180  
ctaggctttt aaacattacc aatacattcc caaaaaaaaa accaaacaaa accccagccg 240  
gatataatac cgctctactg attaacatat ccttttccag gccca 284

<210> 37211  
<211> 173  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-037-Q1-K1-D7  
  
<400> 37211

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gatttttgcc acagtggagg ctatatatttc gacacttttt attgcaaac gctatcgaaa 120  
ctcaaacgtc aaatcagcgg tgtgaaaacc ttttgaaaat gaagatccag cag 173

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<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
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cggcggcgcc accgccggag gcaaaggcaa gatgttcggg cgcgcgccga agaagagcga 180  
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 gaaggcctac cgcaaggctg ctatcaagaa ccaccccgac aaggcggtg accccgagaa 300  
 gttcaaggag ctgcacaag cctatgaggt tttgagtgat ccagagaaac gtgagattta 360  
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 <213> Zea mays  
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 tatctgaagg ttttttattt caccttgaat attgactact gacattacca ttaccttttt 180  
 gttgggacta aagtttagta tattcgtctt attgtttagt ccttatctgt ataattattt 240  
 tatttttata ttatatgtaa tactttctaaa tatcattcaa atatttgatg ttctaaatat 300  
 cattcaaata tttgatgtga aaaccataat ttttttatat tttcataaaa aaaatttttt 360  
 ttataaatct aaaatgaaaa atctctttta tttttcaaat taaaatattt attttttttt 420  
 gaaaaaatat ttattatt 438

<210> 37214  
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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 37214

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cgcgaaacacc ggcatacaagg tgggtgggtggc gctgcccac gagcatgtcg cggcggtgtgc 180  
gtcgcgcgcg ttctacgcgc tgctgtgggt ggcgcggaac gtggcggcgt accaccgggt 240  
cacgcagatc cagggcatcg ncgtgggcaa cgaggtgttc gcgtcngcca agaactgtgac 300  
ggcgcagctg gtccccgcca tggccaacgt gcacgc 336

<210> 37215  
<211> 412  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-037-Q1-K1-C5  
  
<400> 37215

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tgataaatgg catgtcactg gatggctctt tgaaacgttt ggaagaaggc aatctggatc 120  
caaatgaatt aaacattgca agagatggga agacgaagga ttttctgat ggcatagcag 180  
aatgtggtac cgatgcgctc cgcttcgcac tgatatcgta cacctcccag tctgacagga 240  
taaactcttga tatcaagagg gtgggtggat atagacaatg gtgcaacaaa ttatggaatg 300  
ccattcgttt tgcgatgggc aaactgggtg atgattacat tccgtcggca actgttgatg 360  
tgtctcttat gccaccaata tgcaagtgga tactctcagt gcttaacaag gg 412

<210> 37216  
<211> 438  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-037-Q1-K1-E10  
  
<400> 37216

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atcaccagcg aaggaggatg gacctggga caaatgagcc attgttcaca aattgcacaa 180  
gggattttac cggtaacctt gattacatat ttacacagc ggattcattg actgtagagt 240  
cattattgga gctgttggat gaggatagct tgagaaaaga cacggctctt ctttctctg 300  
aatggtcatc ggatcatata gcgctcctag cagaattccg gtgcaagctt agagtttagc 360

gatgatactt taggaggagc tgtaggggag ggattcttga caatcgcatg agatgatgag 420  
aatggtaccc tggccgaa 438

<210> 37217  
<211> 455  
<212> DNA  
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<223> unsure at all n locations  
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ctcgtgaag ctgcacctgt acgccaactt gctcaacagg ctgatcaacg cgacctgaa 180  
gacgacgctc aggacgccgt gctgcacgct gatccanacg ctgacgcacc tgcaggcgga 240  
cctgtacctc tgcaccggcc tcagggccaa cgtcctgggc atcaacctga acctgacct 300  
caacctgagc actatcgta actactgagg caagcacttc cgctcgggct tccagtgtt 360  
ctgactatga cactcacatt gatcgatga tctgcaggct aaacaatatg ttcaagctag 420  
tatacgtagc tggatacata catgatgtaa tatta 455

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<213> Zea mays  
  
<223> Clone ID: LIB3069-037-Q1-K1-B11  
  
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gcatgtaaca tcctgctgcc tgcgaatttc ttttctgca cataaggatt tgaacatcaa 180  
gtttcagtcg aaccgcagca gtggaaattt gcgcatgtta cattcagtaa gccagaatac 240  
ctccaagatt cagatattgt aatgaacaga ttccatagac ctgtttatgg aggttgggaa 300  
caacaccttg gattggagca tacaaccact accccaaaaa ggtcctactt aggcaacaac 360  
cagaaccgcc attcttttga gaaacctgtg aggatttaca actaaagctg ggaatacttt 420

ttacatgtga tgaaatga

438

<210> 37219

<211> 60

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-B12

<400> 37219

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<210> 37220

<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-037-Q1-K1-B2

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cgcgacggat aggtggaccg ccgtgacgtg ggcaagatga agcacgggtg cgagcattac 180

cggcggaggt gcaagatcgt ggcaccgtgc tgcaaccagg tgttcccctg ccgtcactgt 240

cacaacgagg ctacggcttc cggagatcgg catacaatat gtcgtcagga tgttgaaaaa 300

gtagtttgcc tactctgtga aacaaaacag ccagtgtcac aagtgtgcat aagctgtgga 360

gtcaatatgg gagagtactt ttgtgatata tgcaaaattt atgatgatga 410

<210> 37221

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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gtggaagctg cttcattcgc cagatcagcc catctgtaac tttaccggat caaggtctcc 120

agaatagaag aagggaatat aacttgcttc tttgtatgag ctgatttgag cacaataagg 180  
ctttgcttcg tacttgagtg attcaggtgt tactagtcct actgttaaga tgaattgtag 240  
ccagagacac ctatttttac ctcaggaagg gatcttttga gcaggtagat gctactacag 300  
ctagacgcac ttgcaaagct tctaaatat ggcatctag tgttaacaga gacttatggc 360  
gctgtgagca atatngaaa ttggttgcaa tctaattgct tacaatatga tttagatagc 420  
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<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-B4

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actatataca atgtgaacct acctagactg tttagatcat ctgacataga gcaccactag 180  
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<210> 37223

<211> 361

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-037-Q1-K1-B5

<400> 37223

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ttaagcgctc gtgagctctc tccagtggct aaagattgca gatttgagtt atagtccaag 180  
aaacgggtgg tggcccgcca tggaagtga gtccgagcaa gggctgatgg cggggaagga 240  
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catgcagagc gtgcgcatgg cgtacacctc ggacggcacc gctgtgttcg ctccgatgag 360

<210> 37224  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-B6

<400> 37224

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tgattttgat ccaatcgctg ctattgggat tgagatctgg acaatgcatg atggcatcct 180  
gttcgacaat atcttgatta ctgatgatga gaaagttgcc accttcattc tcgagaagac 240  
ctgaaagccc aagtatgatg ttgagaagga aaaggagaac gctgaagagg ctgctgctgg 300  
tgcagatggt ctctctgact tgcagaagaa gatttttgac gtgctgtaca agattgctag 360  
atattcgttc ttggcaccct 380

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<211> 202  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-B7

<400> 37225

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acgctgactc aattgctcca atggcgacca atagctccac aacgcctgca tcacctactg 180  
ataggtacat gcatgcaata tc 202

<210> 37226  
<211> 296  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-B8

<400> 37226

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 tcctgatgct cagcgacgac ggcattggca tgaccgccga gaagatcgtc accatcgtga 180  
 aggcgggcaa catcaagctc gactactact ggccggcact ctccgataag ctccctggaga 240  
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<210> 37227

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-B9

<400> 37227

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 gcatacctgt caaccatggc ggcgtcagca ggccggaggcg cgggtgcgcgc gctgtcccag 180  
 aaggagcagg acatacagat gatgctcgcg gccaacgtcc acctcggcac caagaactgc 240  
 gatttccaca tggaccggaa tgtctttaag cgtggcacca acggcatcta catcatcaac 300  
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<210> 37228

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-C1

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 tgtggaaggt gttctgccta tgtaaagct aggaagcaac tgatcgtgca tgaggtgcca 180  
 aacattttaa cagttgttct taaaagattt cagtcacgaa aatatggcta gatcaacaaa 240  
 tgtgttactt tccctgatat gttggacatg gttgccttcg tgactgggtc tggtgacaat 300  
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404

<210> 37229

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<212> DNA

<213> Zea mays

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ggtcgctaga tcggtgaggg attggagagg ggtatcgatg ggcaggaaca ccggccgggg 240

gcctctgccc acggccgagc aagaggaggg tttgtccctt ctaattcttg cctactttat 300

ttctcatcca ttgattacat aaataggcta gctagccgtc cctatctaac tagagatcct 360

tatctgctta aaactctctt aaaaactctc aacaactact atctgataac cttcctagat 420

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<210> 37230

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-C11

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atcatctcga aaaccatctc aaagaaaggg atgcttgaag tgtacaactc tttgagcgag 240

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ctctacgaat gctatgaaga tgtggcctct ggaagtgaat tccggagcgt ggtgttggt 360

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actcgc 426

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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-037-Q1-K1-C12  
  
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 catctttaag aaggcgacgg ttgatggaag atgcacatga gagacgaacg ctctaacagg 180  
 tgcacaatct gtatgaccaa tgggacgcac ccatacacgg ttgttctata tgaatggtat 240  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-037-Q1-K1-C2  
  
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 <213> Zea mays  
  
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 ggtgacgctg gagctcggtg gcaagtcctc tttcatcgct atggacgacg ccgacgtcga 240  
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 <211> 384  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-C3

<400> 37234

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 taatttcata acttctcgag ttatggttcc tgtttttaac gtttgggttt tactaaactg 180  
 cttctgattt aatatctttc tgggtctact cttagtcttc gttcgacctt tgcaaaatta 240  
 gatacaattt tctgctcgtt ccacacaatt ttgctcctct cttggtgggt tagatgtgag 300  
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 <211> 169  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 37235

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 <213> Zea mays  
  
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 <400> 37236  
  
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 <213> Zea mays  
  
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 ttggatacgg ttttataaaa taaagatgga aaaaacgtgc ctttaataa aataacaggg 240  
 gcgcagtata tacacctttg gacaggtgaa aaccttgggg 280

<210> 37238  
 <211> 79  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-036-Q1-K1-H4  
  
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 gcaggttcta cgggcgggc 79

<210> 37239  
 <211> 328  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-H5

<400> 37239

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taatacagaa gctaataata ataagaatga agatgaaacc accagtcttg tagaaggacg 180  
caagcatgat actgaatcca actctgctgc tgagagtaaa agtgaagtca attcaactgg 240  
agatgaattg tcccaaaaca atcatgcaca agaggaaaac actagggagg caagtggaat 300  
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<210> 37240

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-036-Q1-K1-H6

<400> 37240

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tgattcagtg tggcaactgg aagaaggctc atactatttt cgtgacttct gttgctcatt 180  
ctatgtttct gtcactaac catcaggagg tctggaggat cacaagtgcc ttggagaacc 240  
acaagtatga aattgctgac tgggaccttg gtgccggaat atacatagac ttctacattc 300  
tgaagaactc aatgcaagaa agaaatgcc aaggatgattc ggattcactc gaggagatga 360  
gtgaatcatg cagaagtttc tttggccgac taaacgaatc gntgttagtc tggggaagca 420  
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<210> 37241

<211> 302

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-036-Q1-K1-H7

<400> 37241

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aaatggggcc tgctgttcca cggcgagggc gtcggaccgg agcgagctgg cgggtaaaag 180  
cgggggcttg gcttggagag cggcggggag aaaggggcgg ctgcttggcg tcaccggagc 240  
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cg 302

<210> 37242  
<211> 325  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-036-Q1-K1-H8  
<400> 37242

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caagtgtgaa cttgcacgac aatgggtggcc tctctgtgtc ttcgtctcaa aatccagttg 120  
tggactgtgt ttctaggaga gaggatcccc ttcgtgattg gggcaatata gcttgcagtg 180  
aaggaataat tggatgtgac cataccacca ccgataatga acacataaag ctagcacaca 240  
ggctgcacga taatgttcaa atgaatgtac ctgtcatagt tgaagacgtg actgataatg 300  
tgccttcagg cattccatca tcgag 325

<210> 37243  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-037-Q1-K1-A1  
<400> 37243

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gtgccgtcag cacagcagat ctagcaattc caggtggtac aaaagggttt ttcataca 120  
agtggtcacc aaaagaagaa ctgaaacatc aagatggtgt ttgcttctac gttttaccat 180  
tgaggatatg atggtaaact gaagtcattg attatgctat gcattcagaa gatgatgcta 240  
aactgaataa gcacattaat ctgatttttc tatgcattga gactatgttt gtattattgt 300

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322

<210> 37244

<211> 470

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-037-Q1-K1-A10

<400> 37244

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catttatatc catcgaagtg cgggtgcttgt gtcacaattg aacctgtgtg ttgtgcattc 120

ttcctaagag aagggggtaa ctattttaag cccaagtaaa tgacacacaa gtaaacatat 180

atatataaac ttcttttgct acacaccttc tcttatttcc aatttcttta gcttcctccc 240

ncagcatgtg gctctccacg ccgctattct taccacgttt tcttctatat ttgataagat 300

tggcctgctt cttactgtta tcaccagggt cgagaaagga gaggacctta cctgaggaac 360

tggatatatc ttgaaagatt tgctgaacaa gcttctcctg cctactacag ggatcaagtg 420

ttggtagcat aaggatcatat aggccttca tgagagccct ttggtggttc 470

<210> 37245

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-A11

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tgaagacaac ccgatataa aggatctgca gaatgcagaa actttgcgca agttcgtcga 120

tcctcggagc atcgagacac agacaaaccc gatcgaccgg tctatcgctc tgctactttt 180

ccaccagtca tcggaccatg cggctgtggc tgctgacgat gctcatcac ttaaaccccc 240

tgctggtagc aaacaacacc agggccctgc tgctaaccaa aaccaaggcc tgatgcctga 300

ttcatcggtg tattcccctg gagatggggc cccaaggat gtacagtccc tggacaagtt 360

ctgaatttat gtccctgctc tccatgacct agttaagggc atgttcgggt ccccggaat 420

gggcatgttc ggttcccccg gggaa

445

<210> 37246

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-A12

<400> 37246

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gttggtttggg ataaggatct tgctgaagat tctcccttgc cttggtactt gcccttggat 120

ccaagccgat tctccctgag tagcttccgt ttgacctctg tgggacgcat gattaccgcg 180

acaatgggtca aggccctgga gtacgttggg cttgctccgc agggcagtga gagggctctt 240

aatttcctgg agaaggctgc agaagggtctg gtagagggcg gaaagaagga gatcttcacg 300

ccaatgtact tctttcttgt tcggaagcct cttctggaat gagctcttgg atcacctttt 360

cagagagaga aggcaagtgg tcatttcgaa gaagccgagg agaggggaacc tggaatcaag 420

aaaaccttca gctctcctgt gtaggaggaa ag 452

<210> 37247

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-A2

<400> 37247

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ggcagggctg gacatgttag aaacatctct tgttgccctg caagacctga cgctagacia 120

gatcttcgac gagtcaagaa ggaaagcact attctcagac atctcgaaac taatggaaca 180

gggctacgcg tacctgccgt caggcgtgtg catgtcagga atgggcccgc atgtttcttt 240

cgaccaagct gtagcgtgga aggtgctcgg cgaggatagc aacatccact gcctggcggt 300

ctgcttcgtc aactggteet tcgtgtgact gaagtccaac ccgtcgggtg gttatggcga 360

gctgaccca tttttttttg tatggaaaat ca 392

<210> 37248



<211> 120  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-037-Q1-K1-A3  
  
 <400> 37248  
  
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 cgtgccgtct gcacatctga tctagctatt tcagttggta caaaaagggg gcgctcgtca 120

<210> 37249  
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 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 tcagattatc cgctcatgac acaagatgac atacttcatg tcttctcttc tttgccaaga 180  
 aatcttaatt atatagagca ctttcngtta tctggatgga aaggtaatat aagggcaaaa 240  
 ccaattgttc tggaccacagg gctctatctg tccaagaaat ttgatcttac tatgactact 300  
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<210> 37250  
 <211> 384  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-037-Q1-K1-A5  
  
 <400> 37250  
  
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 gtggatcaga tgaagctagt aatgaacaga ccagcgtctt aggcaagaac gcttctggtc 180  
 gcaaagatcc ggataaacia gagaaagcgg cggaggctac taagggcctg aaggatacag 240

agggattcac tgtcgtttca aaacgccgaa ggcgttccca gccgttcatg aaccccataa 300  
atggcctata ttctcagccg tctatttgca cctctgtcag ttaaggcatg tgcgttttcg 360  
aagacctgca atattttgcg agat 384

<210> 37251  
<211> 283  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-037-Q1-K1-A6  
<400> 37251

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ggcatcagcg gtggctatgg aaaaagccgc agccttggtg gtggatatgg caaagggtggc 180  
ggactccgag gcgacattag ccatggcatg ggtggacgcc atggcaaagg tggtcgaatt 240  
gagcatgaca cgggtggaag attcggcaga ggccgcagtc gtc 283

<210> 37252  
<211> 284  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-037-Q1-K1-A7  
<400> 37252

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tggcagacgc atcgcccatg gcatgggccg tggctaccgc aaacgtggag ggattgacca 120  
tggcatcagc ggtggctatg gaaaacgcag aggccttggt ggtggatatg gcaaagggtgg 180  
cggactccga ggcgacattg gccatggcat ggtggacgc catggcaaaa gtggtcgaat 240  
tgggcatgac atgggtggaa gattcggcag aggcgcagtc cgtc 284

<210> 37253  
<211> 230  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-036-Q1-K1-H12

<400> 37253

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tgctgacggg gctcttcaga ctccaccgat ggcgatcaag aacatgacgg cggcggcgac 120  
gacgcggtcg ctggacgcgg acatgacggg ggacgagttc aaggagtggc tgcggcggtt 180  
cgacacggac catgactggc gcatcattcg ccacgagctg cagagcgccc 230

<210> 37254

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-A8

<400> 37254

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gtgacatgat cgtctgacat caaagcgtga aagacgttaa taaatctggt caggagaagc 180  
agtcattctag cgtggcaagc ttggaattga caatgagtga tgtggacact ggtagatcta 240  
gtagcaaggc caaaggatga tttcttttac caagtatgct tgcattcgtg aagcaaatca 300  
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<210> 37255

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-A9

<400> 37255

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aagaatgttg ctgtgaagga tctgaagcgt gggatatgtg cctccaactc caaggatgac 180  
cctgccaagg aggctgctag cttcacgtcc cagggtcatca tcatgaacca ccctgggcag 240  
attggcaacg gctatgcccc agtgctggac tgccacacct cgcacattgc tgtcaagttt 300  
gcggagctca ttaccaagat tgataggcgg tctggcaaag agcttgagaa ggagcccaaa 360

ttcctcaaga atggtgatgc tggatggtg aagatggttc ccactaagcc catggtagtg 420  
gagacctttt ctga 434

<210> 37256

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-F5

<400> 37256

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gtatcggtc cccatccagc gtttttctca ggagaccgga ataaattgga tgcattgagta 180  
aatttagaaa ataaaggctt ccagatgagg aagcggttaag agacaaagaa actattaaaa 240  
atgattggtt ggtagaaaat agtttgaggt ttcccaatgc ataattgttt agtaggctat 300  
tatagcagac tagagaacaa taaactttaa ggttgctatt ttttttttgt taacttgcta 360  
gatctgt 367

<210> 37257

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-F6

<400> 37257

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cgcctggaag ggggagacc ttgaggagta ctggtggtgc accgagcgct gcctcgactg 180  
ggcgagggcg ggcggccccg acctcatcgt cgacgacggc ggcgacgcca cgctgctcat 240  
ccacgagggg gtcaaggccg aggaggacta cgagaagacc ggcaagatcc ccgatccgga 300  
gtccaccgac aacgctgagt tcaagatcgt gtcaccatc atccgagacg ggc 353

<210> 37258

<211> 295

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-036-Q1-K1-F7  
  
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 gagactggaa ggcggagacc cgtgaggagc actggagggtg caccgagcgg atcctagact 180  
 ggagcgagac gagcggggcgc gcactacatg gacgaagcgg gagacaagcc acgctgctca 240  
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<210> 37259  
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 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 attcatcaaa tgatggagct tgcggctttg aaaaagttga tgcttgctcg acccaatccg 120  
 gttaagctga aggaaactth atgtgaagct aaactgagct tatctaatag ccagactct 180  
 gtgttgaatc aatcaagctt gttaataagc agctcaagtc ctgatattgg cgagcccagt 240  
 gacaaaagtgc aggtggattc ctgccaatc ttgataagca gtcacatggg tgattgtagg 300  
 gtctcaggtc ctgacagcag ttcgttgaat acttgtgcta atagaaatgt ctcttgtaaa 360  
 gcacatgatg aagagagctt ggatcangcc ttaataatca aacatgacag tgggatgatg 420  
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<210> 37260  
 <211> 125  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-036-Q1-K1-G1  
  
 <400> 37260

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 gggaggaggc gatagacaat tcaatggtct tgtggatgtc taccgcaaga cactcaaattc 120  
 tgatg 125

<210> 37261  
 <211> 335  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-036-Q1-K1-G10  
 <400> 37261

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 aaagtaaggc aattcctcgc ggtgattcgg ttggtgatac tttggcaagg caactgggag 180  
 tccagattgc atcttctgat gaacaggcaa aagctgccga ggacttcaag aagactttat 240  
 atggtgttgt tgatgatgga agtagtgatg aagacgagtc aacctcaaag actaaaaaga 300  
 tacatataag gatacgtgat aaaccggctg cacct 335

<210> 37262  
 <211> 250  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-036-Q1-K1-G12  
 <400> 37262

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 tagctataat tatagacgat gaatatagac acacatcatg ctgagatccg caccagtata 120  
 gaaaactaag ctgcacgcct gtctgtaatt cggatgtaga aacatctaca aggcattccat 180  
 gaatacagat tgcaaaatct gaccatcatt tcaaaatatg cagagaactc tacaacgact 240  
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<210> 37263  
 <211> 388  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-G2

<400> 37263

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tgcgaggcca ccggcgcgaa tgtgactgag gtggcttacg ccgtgggcaa ggacacgagg 180  
attggcccca agttcctgaa cgccagtgtt gggttcgttg ggtcttgctt ccagaaggac 240  
atcctgaacc tgggtgtacat ctgcgagtgc aatggcctgc ccgaggtggc caactactgg 300  
aagcaggtga tcaagatcaa cgactaccag aagagccggt tcgtgaaccg cgtcgtgtcg 360  
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<210> 37264

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-036-Q1-K1-G4

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aacttggtact atgggggtctc taatgaggat ataaaggagc tgttttcgga agttgggtcat 180  
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gatggaaaag ctatgaagat agaagtcacg ggaaatgact tangattgcc tatgacacct 360  
cgtataaatg gttgtggggc ttctaattgc agagctacca gaacagttgg tatgacgcct 420  
gagtttagtc aacgtggc 438

<210> 37265

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-G5

<400> 37265

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 agactgcatg tctttttccg tgcgcgcgcg tggaattcgc acggccctac cactgagcacg 180  
 tgccgtacgg ggcgtcagcg cgtgctggat cgaagaggga tgcgagctga gagagcgcgc 240  
 ctgatgagag gctgagacga gacctgatgc ggcccacacc tgcacgtgtc cgtataatct 300  
 gttcagagtg ttcgtaatcg atcttttcaa atttttctc 339

<210> 37266  
 <211> 372  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-036-Q1-K1-G6  
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 tcctgcaata atggccgctc gtcctcctc ctcccagccg cagctggctg cggcggcggc 120  
 ggtcctggca gcggcgctgc tgctgctggc ggcgggggcc gggacggcgt cggcggcggt 180  
 gagctgcggc gaggtgacgt cgtcgggtggc gccgtgcctc gggtagcgca tgggcagcgc 240  
 ggcgtcgccc tccgcggcgt gctgcagcgg ggtgcgctcg ctcaacagcc gcgcgtcgtc 300  
 ggcggcgga cggcaggcca cctgcaactg cctcaagagc atgacgggcc ggctcggcgg 360  
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<210> 37267  
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 <213> Zea mays  
 <223> Clone ID: LIB3069-036-Q1-K1-G7  
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 atataaggta ctggccaatt cgtcatgcga cggaatcacc aagctgcgat gctacaacca 180



cagcagcaat cgcttggact cctgatggta caagacagag ctgctctacg acgtcgacgc 240  
 caacgtgatac aaggaggagt tcatgca 267

<210> 37268  
 <211> 420  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-036-Q1-K1-G8  
 <400> 37268

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 gaatagtga aacaaatgaa gggctagatc ggttctttga tagagaactt gagatattgg 180  
 gaagtgttaa acatcgttac ttgggtcaatc ttcgtgggta ttgcaactct ccttcatcaa 240  
 aacttttgat atatgattat cttcaagggtg gaagcctgga tgaagtgtct catgaaaagt 300  
 ctgaacagtt ggattgggat gcacgtatta acatcatact tggagctgca aaaggcttgt 360  
 cttacttgca tcacgattgt tcgcctcgaa taatacatcg tgatatcaag tcgagcaaca 420

<210> 37269  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-036-Q1-K1-G9  
 <400> 37269

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 agctccctat actggaatta gctttgctgc tgatcaagtc aaggcaatga attattcact 180  
 tactctgcat acagtteggga ttgatcctgt gttggtcggg gactataatc ttcttaattt 240  
 aacttgggtc aggtcattgg ctccagctcc agctccagca ttcacaatgg cacctagggc 300  
 ctctccatct acagcatcta cctttccaag ac 332

<210> 37270  
 <211> 368  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-H1

<400> 37270

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agttcgcagg cggcccgcc ggcgactacg accctaccac cggctgcac acgcggttca 120

accagctcgc cgagcaccac aaccacatgc tgaggatgat gctgagggag ctgcggacca 180

agtaccgcag gcgcaggccc ctacccctcc actacgccga catctaccgc cccgtgatcg 240

aggccgtcgc gtccccgcc tcgtacggtt tcggcgacac gccgctggca gcgtgctgcg 300

ggggccgtgg cggccccaac aactttcact tcacgcctt ctgcggcacg ccggcgtcga 360

ccacgtgc 368

<210> 37271

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-H11

<400> 37271

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atggatgcct ggatgcttca ctccgtacag aggacctgga ggtgtggttt gttgtatgtg 180

cgtggtcact ctttgcccag gctgctgtgt attatttctg ctaacatggc ttatcatcag 240

ccgacggtcg cgactgattg gaggcctgcc tcacttgtag ggttgtagca tgtacatctg 300

aacgggtgat ggaacggagt gagtctaaga tct 333

<210> 37272

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-036-Q1-K1-F4

<400> 37272

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acagaaggga cttgatcaag caggcactgg agcagcgcaa ccgatttgca tcttcccaca 120  
 ttgcttacat tgagtccttg aagcgtgttt cgggtggctct ccaacgggtt gttgccggag 180  
 atgatcacca tgagctaata ttcgatacat tcctctcccc tatcaagcaa cagaagccag 240  
 agatgcttgg tctgccttat ggttcatatg agaagagaac tattcatggt tcaagatacc 300  
 tgaggtcagg gcctaacca tcagtgtcca ttgaggagca cccacgtncg gtggaaacag 360  
 tccgtgtcga gtcaaattac cctatggaca acgacagtgg catggtggat aga 413

<210> 37273

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-D9

<400> 37273

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 aaccacaaaa acaagcagca tctgttatgc gcagagcatc atctattgct gctcggcaag 120  
 cagcaatggc acagcaatct caggagacta aaccggtttc atcttcgccc aagatcaagc 180  
 gtcaaacatc agtgagatct ggttcagtgg catccataaa gcctccggta gctgcatcca 240  
 caccaaaacc tggcggtagc ccaaataaag gcgagggtcaa acctgctgcc ggcccagttc 300  
 aaactccaac cacagggtgcc gattcatcaa ataccggg 338

<210> 37274

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-E1

<400> 37274

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 cgtgaaagat ccccaggtag aaggcggttct cctagtcctt acggtagagg acgggagaga 180  
 ggtagcccag attacgggag aagcaaggag agggggagcc cagactatgg caggggagga 240  
 cgcagccctg ataatggcag gggagtaagc ccagctggtg gtggcagagg cgatcatgcc 300

aggggtggag ggcgcagtcc tgactatgat

330

<210> 37275

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-E10

<400> 37275

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catccactca tggctgtcga gcaatcagat gcagcgcgcg acagctacag gcggcttgcc 120  
aggggctcac atggttgcaa caggccaatt ccgcacgcca gcgatgaacg caatgggtcca 180  
ggaggcccat aggcatttgg ccagggaagc atctgccccat gatgcgggga catcaattgt 240  
ttgcaagcgc gccgtcgagc ttctagatgg gataaacaag cgattcgatc tctggtgcaa 300  
gctggaccag gaattgccgc gcacgaacca acc 333

<210> 37276

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-E11

<400> 37276

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cgtcgactaa tggttgacag gcaatcagat gcagcgcgcg acagctacag gcggctagcc 120  
aggggctcac atcgatgcaa caggccacta acgcacgcca gcgatgaacg caacgctgca 180  
tgaggcccat aagcatctgg acagcgaagc atctgccccat gatgcgggga catcaactgt 240  
atgcaagcgc tccggccagc tgctagatgg gataaactag cgagacgagc tatgctgcac 300  
actacaccac taatagccgt gcacgaacc 329

<210> 37277

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-E12

<400> 37277

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atataggagt aaaaacaaga cgtaataaaa aaggatcgac gcggaaagtt ccgattgaaa 120

taggatctaa acaaggaaga gcacttgcca ttcgttggtt attagaagca tcccaaaagc 180

gtccgggtcg aaatatggct ttcaaattaa gttccgaatt agtagatgct gccaaaggga 240

gtgggggtgc catacgcaaa aaggaagcga ctcatagaat ggagaggca aatagagctc 300

ttgcacattt tcgttaatcc atgaacagaa tctagg 336

<210> 37278

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-036-Q1-K1-E2

<400> 37278

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cacaggaata ctgagatata tctagtgttt gtagttttgg ggtgaactca gagaagttga 120

aggtaacgac ttggcttgcg aatatcagct gatctgcact cgggaaatat cagagagctt 180

gtgcagaaaa ggtaacagtt atgggcttat ggcagatgca gtagcatgag atgtcttcat 240

aattgttgtg tacatcaggt tcagtggtag ccccatcgtc aagctggata cgagtttggg 300

aaaggtaact gtaaatacgag aaaattgtaa attgattagt gagctcactg cagcaatagt 360

tgttttccta cgtntcatct gggatttggg atgaaccacc ggaaggattt ccggt 415

<210> 37279

<211> 357

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-036-Q1-K1-E3

<400> 37279

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cgccgactcg gctaccgccg ccgccctacg gaagcttccc aggtcttcgt caggcttttc 120

tccggcaacg agcaccctgc acagatcgtg aacctncaca cctcaacgat agatggcggg 180  
gttcagaagc cttgcaccca agaccaggaa cctgggtggtg gccgggggac tgtctgcctt 240  
cgtgctcggg gtctactact acaccatgag agcgggtggga ggcacggacg agctacaggt 300  
ggcgatcgac aagtttgagg agacgaaaag caggatgctg gtagaaactt cagcttc 357

<210> 37280

<211> 309

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 37280

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cagtcgatca caaaccaatc gcggagaggc aatcacgtac gtatacacac gggcacgtaa 120  
ctagctatct agctagcagt cgtagagtga cgatgagggg tctctctgtt gcggtcgctc 180  
tggtcgtggt ggtggccgcg gcctgcctcg ccgcgccgcg gggcgcgac gggcggnccg 240  
agtgcggggc gacgcctggg gacacggtgg cgctgaggct ggcgccgtgc gcgtcggcgg 300  
cgggggacc 309

<210> 37281

<211> 363

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-036-Q1-K1-E5

<400> 37281

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ccacggcctg gcgtcgctga tgaacccggt cacggcgagg tcccgttctc ttgggtactg 120  
cgcgccggag gtcgctgaca cgaggaaggc gtcccagtc tccgacgtct acagcttcgg 180  
cgtcttcgtg ctggagctcc tcacggggaa gtcgcccgtc cagataaccg gcggcggtgg 240  
cggcgacgtg gtccacctgg tgagatgggt gcagtcgggt gtgcgggagg agtggaccgc 300  
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gct

363

<210> 37282  
<211> 404  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-036-Q1-K1-E6  
  
<400> 37282

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gaccacggac tggcgtcgct gataaaccgc gtcacggcga ggcacacggc tcttgatac 120  
tgcgcgccgg aggtcgctga cacgaggaag gcaggcgagt ccttggacgt gtacagcttg 180  
tgcgtgttcg tgctggagct cgtcacggcg aactcgcccg tgcagataac cggcggcggt 240  
ggcggcgacg tgggtccacct ggtgagatgg gtgcagtcgg ttgtgcggga ggagtggacc 300  
gccgaagtgt tcgacggcga gcttttgccg taccccaaca tcgaagagga aatggtagag 360  
atgctgcaga tcgcatggc gtgcgtgttc aggaccccc gagc 404

<210> 37283  
<211> 319  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-036-Q1-K1-E7  
  
<400> 37283

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tgtctgaacg agcccgagaa atggaacatt cccgacgacg aggtggacga catggatgat 120  
tgtacactgt tctctgaatc cttttccatg tgattgtagc ctcatttttt tccattttcc 180  
ttttagtgtg tgctatgttg gcatgccgtt cttggcatgg gatggaggca ttgagctatg 240  
ttttctggtt tttttgtagt cttagatgac tggtatTTAA tcatgcgata tatatatgac 300  
ggngattttg ggatgtaaa 319

<210> 37284  
<211> 331  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-E9

<400> 37284

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ggttggtccag gagttcacag ttgatctcaa caagccctt gttttccagg ttggccatct 120

tgaggaacgg taccaggaat gggttcacca accgatcgtc agcaaggagg gtccacgctt 180

tttcggaaat gatgtcctgg agttcttgac tcgcacgaag tgggtgggctg tgccaactat 240

atggctgcct gttgtctgct gcctgctcgt gaaatctatt ctgatgggctc atactgttca 300

ggacgtagct atgatggctc tgtttgggat a 331

<210> 37285

<211> 327

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-036-Q1-K1-F1

<400> 37285

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gtccagctca gcttgccttt ccgcctcccc gactccccct ccaccctcgc cctcgccctc 180

gccgcggaac cagagcaaca gaacgccaag cagcatcgcc agcccgcgct gctgggtgcag 240

tcgacgtgca actccaccag cttctacgac ctctgcatcg acgcgctcgc cgnccgacccc 300

gncagctcca ccgncgacgt cccgggc 327

<210> 37286

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-F11

<400> 37286

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gacaaaaaag caaaggctat gtcagatttt ggggatgatg aatataaacg aatgggtatgc 120



gtggaggcgg ctgctattga aaagactgtc actctgaagc ctggtgaaga gtggactgga 180  
aagttggaac tttctgctgt gccatctagc tattacagtg gtcagctaga ccctgaccgt 240  
gtgattcagg attccactgt cccggaggac tccatcagct agtccttatt ctatttttgc 300  
aggtagagca ttgtatcatt atgcataaga gatg 334

<210> 37287  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-036-Q1-K1-F12  
<400> 37287

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cacgatcacc atgtaatttg taaaatgggg ctactgttac tgtaataaag gcacatgtc 119

<210> 37288  
<211> 423  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-036-Q1-K1-F2  
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tctccttcaa gagatggatg cagcaaaatt atgtagaatg gattcatgtg atgggcaata 120  
taatttgtgt ggcacggaat caacatctgg atcacttgca caaaacattc aatccagaaa 180  
aaatgggggt gagcatggtt ctgagcaact gcaaaccctg gatcgtgttg actctttaga 240  
tggcttccag aagcatgaca gtgaacattc tcttttaaaa acttctcaag tatcgccaaa 300  
gatacagcat gccgctgaaa tcttatgtga tatgagaaga agcattgaat cgttgagtgg 360  
ccaaggatac agcaatgggg tgattaaatg gccaaaatca ccatccgaaa aggtgatgaa 420  
agc 423

<210> 37289  
<211> 174  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-D8

<400> 37289

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gcttacctct gtgccccagt cgattcgcgt gagcctttct tggaaggaac gatcgaacac 120  
acctgcatga tgatcaagcg cgcccgctg cagagcggcc tgatcgagga ctat 174

<210> 37290

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-C11

<400> 37290

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ccggagtact atgatgggaa gcttggctcg tatgttggca agcagggcag gaaattccag 180  
acttggcca tcacggggta tttggtcgcc aagatgctgt tggaagatcc ttcacatctt 240  
ggcatgatcg ccctggaaga ggacaaggcg atgttgaagc ctgttttgaa gcggtccgcg 300  
tcatggacaa attgagatgg tgacgaaaat tt 332

<210> 37291

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-C12

<400> 37291

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ccaagcctat agcagagggg tataacctcg ccggagaaga caactatccc catggaccga 180  
aggtccatga cacctggtat cagctccagg ttatcctcac caccaccagc cgcccatccc 240  
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actccagatg cattcactcg gctcgaagag aagtg 335

<210> 37292  
 <211> 429  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-036-Q1-K1-C2  
  
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tcgaccagct catggggggcc aaccgcaacg gcgatgtacg ggaggtcagc cgcaagtact 180
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atccttccaa gtgaacagnt actntatctt gtgtatntgn ttgtgggggt tagtttttga 360
gtcaggctta atgtgtaaaa gccaatccaa cgattcataa cattacattt gatttttttg 420
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-036-Q1-K1-C3  
  
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tcggctacgg cacgatatgg ctggacacat accagatcat cgacgccaac c 111
  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-036-Q1-K1-C4  
  
 <400> 37294

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aaacccccga tgtcgtccac cagttctaca gcgaagccag caccatggtc cgcgtcgacg 120  
 acctcaccgg caccgaccgg gctgccaaca acatgatgga catacactca ctcatcatgt 180  
 ctttgaactt cacccaaatt gagatcaaga ctgccaattt tgtgaactca tggggcgatg 240  
 ggggtgctagt tatgggtctct ggtctagtgc agaccaagga gtacagccac caaaggaaat 300  
 ttatccagat gttcttctct gccctcaag agaaggggta ctttgtcttc aacgattact 360  
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 agaagcattt ggcacccaac acag 444

<210> 37295  
 <211> 263  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-036-Q1-K1-C5

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 ggcgctgctg ctgctggcgg cgggggcccgg gacggcgtcg gcggcggtga gctgcggcga 180  
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<210> 37296  
 <211> 309  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 ttggagcctt gaaggctatc ctcaatgtca ttggtatgac taaaatgact gcaccaatca 180  
 aggatcttct tctcgtctg accgccattc ttaagaacag gcatgagaag gtncaagaga 240  
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gaatggatg

309

<210> 37297  
<211> 374  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-036-Q1-K1-C7  
  
<400> 37297

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cgagtagccc caaggagtgg ttctccatgc tggccggcct caccgcgggg caccagcgcg 120  
cctgggacgc cgggtgcggc accggccagg ccgccatcgg aatggcggag cactacgaga 180  
gctgtgtggc gacggacgtg agcgagggcc agatccagca cgccatcgcg caccgaagg 240  
tgcggtacct ccagaccccg gagcacctgt cggaggacga ggtggtgtcc ctggtcggcg 300  
gcgagggtc ccttgacctg gtcgtggtgg ccacctncat cactgggttc gacgtcccgc 360  
tcttctacgc cgtg 374

<210> 37298  
<211> 262  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-036-Q1-K1-C8  
  
<400> 37298

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atttgatgc aaattacgtg tggaggatgg agtaaaatac tgagcaaggg agagggaaga 120  
ggagacggtc ttttcttttc ttgagccgag gagggggatc aggtggagtg agcgaagggg 180  
aggttctgcc gccggcaatg gagatgaatc ttccggcgga gagcccaactc tgctcccggg 240  
gccggccccg cctagtcgtg cg 262

<210> 37299  
<211> 300  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-C9

<400> 37299

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gcggagcttg agctgttgta gatgcacaac atgacatact gcaccgaaat tgcccactac 120  
ggggacaccc ggaaacgcaa ggagatcgtc gaacaggacc acacaactgg gcatagcagt 180  
gaacaacaaa ctggccagga tctacaacct gtacggccac tgaaatagac attagaaagc 240  
ggtgatacac gctggcagac aataatggag cgaaaaacct gcaacatgac ataccatgcc 300

<210> 37300

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-D1

<400> 37300

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cgctagttct cccatttctt tccccacctc ggtcgtcgcc tccccagag agcaggagcc 120  
gcctcgctcc tgccgggtccc gaccccgacc cccatcccggt ccgcgtccaa cgccatgaat 180  
cccgagtacg actacctctt caagctgctc ctcacggggg actccggtgt tgggaagtct 240  
tgctgctgct tcaggtttgc ggatgattca tatctggaga gctatatcag tactattg 298

<210> 37301

<211> 335

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 37301

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ccagattctt gaatatgtca aggaaataag gtattcattg gaatcttttg tttatatggc 180  
aaaagtatgg tatatgacgc ttgacctgca taaccatgca caattgtctg tcacctatga 240  
tgtacaggtc attgacttaa cagccttaat tacatggaat atgaagatat atccagccag 300

caaaagtttt atgcatgatt cttatatntt atttc 335

<210> 37302  
<211> 323  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-036-Q1-K1-D3  
  
<400> 37302

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ccgctttggg aaggcgcgac gaaggcaggc gagaggctcc agccggacga ggaggaaaga 180  
ggagcagcag ggccggagga gagatgttcc tgtgggactg gttctacggg gtgctggcct 240  
ccctcggcct gtggcagaag gaggcgaaga tcctcttctc cggcctcgac aacgccggca 300  
agaccacgct gctccacatg ctc 323

<210> 37303  
<211> 379  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-036-Q1-K1-D4  
  
<400> 37303

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aggcctcaat aaaaattaaa gaagtcgagt gggattacct actacagcaa aatatgcatc 120  
aattcagcat tgatgccctc gagggcctta taaagtatct cagtactaat ggtactacca 180  
atgctgatcc tgcagttgat ttagtaagag cactgcagtc ccaatgccgg gacgatacca 240  
gtactcaaca gtttgaactc tcttttcatg gaagtggaaa caaatattca tgtagcagtc 300  
tggcagaact agatcagctc acttgcaaga acttgtgcac tgatataatt ctggacgntc 360  
ctggttctga tagagagat 379

<210> 37304  
<211> 359  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-D5

<400> 37304

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aggttcaaac agacgctccg cacgagctgg agatggaggt ggaggtggcc aaatattcac 120

gggggcaggg tgctgacctg aaggcgctgg gggacaagaa gttgaaaggg cagctcagtg 180

taaaagagaa gctatatggc caatctgcaa aagctgctgc aaatgccgaa aagtggctta 240

tgccaatga tggaggtatt ttagagcctg gtcatttgga gaaaacatat agattttcac 300

aagaggatat attgacagag gtggatcttt tgagttcaag aaaaccattt gatatgac 359

<210> 37305

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-D6

<400> 37305

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caagcacatg ttcaagatgc cattttggat agccgagagg atggactcat gagtgatagg 120

aaaaactatc ctttgagtat gcttgccatt catgctggtc ccagattgcg gcttcttctg 180

atcacattcc agcttctgga aatggaggta agaaatatct ctggaagttc tgaacttgat 240

ggaatcaggt ggatgcaagt atcaactacc ttgatagata gtttaattca accagtattt 300

atgaaatgga ttgaagaaga acatgccttg gaaaatggac aaatcaacga ataacttatg 360

aagacga 367

<210> 37306

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-D7

<400> 37306

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tgttctaca taccctactc caccgcagg agcggcgcgg cggcggcaaa ggcaaaggca 120  
 aaggcaagat gtctggggcg gcgccgaaga agagcgacaa caccaagtac tatgagatcc 180  
 tcgggggtgcc caagtcggcg tcccaggacg acctcaagaa ggcctaccgc aaggccgcta 240  
 tcaagaacca ccccgacaag ggcggtgacc ccgagaagtt caaggagctc gcacaagcct 300  
 atgaggtttt gagtgatcca gagaaacgtt gagattatga tcagtatggt gaagatgccc 360  
 ctt 363

<210> 37307  
 <211> 413  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-036-Q1-K1-C1  
 <400> 37307

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 tcgacgcggc catcagctgg ctggacgcca accagctcgc cgaggcggac gagttcgagg 120  
 acaagatgaa ggagctggag agcctctgca accccatcat cgccaagatg taccagggcg 180  
 cgggtgaaga catgggcggc gctggcggca tggacgagga cgcggcgct ggcagcggcg 240  
 gccctggccc caagatcgag gaggtggact aagcggtttg ttgtcagtct tgagcgtgct 300  
 gcagttgctg gctgggccag tcgctgccgc gagttatcgg cgtcggtcgg tcgggtgtgt 360  
 ccgttaaact ttaattgtgg tgggctggta cttttggggg tgttattttt ttt 413

<210> 37308  
 <211> 336  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-036-Q1-K1-A11  
 <400> 37308

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 ccgccgctcc atcccgtaac gcgacacat gagggagtgc atttcgatcc acatcggcca 120  
 ggccggtatc caggtcggaa acgcgtgctg ggagctgtac tgccttgagc atggcattca 180  
 ggctgacggg cagatgcccg gtgacaagac cattggggga ggtgatgatg ctttcaacac 240

cttcttcagt gagactgggtg ctgggaagca cgtgccccgt gctgtttttg ttgaccttga 300  
 acccactgtc atcgatgagg tgagaactgg caccct 336

<210> 37309

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-A12

<400> 37309

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 gaaccctagc cgccgcccac ggatatcgcc ggagaccggc gccggtagcg atacgcaaaa 120  
 ggagtgggtac gttctttgac cttgtttatt gctgcgcccc aggcgtgtgg cgcggggggga 180  
 gcaggaagga gaggggaaga acagaagggg aaggcggggc gtgccgcgat gtcgggtgcgg 240  
 atcaaggcgg ttgtagaccg gttcgtgaaa gaactgcagg aagcgttga cgcgggacatc 300  
 caagaccgcg tcatgaagga gcgcgagatg c 331

<210> 37310

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-A2

<400> 37310

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 ttgcaagggc tattgcttcc ccaagggaga tgctgtctcaa taaagtgccg ttcccgttc 120  
 caacaccatc cattttcaac ctagacccaaa tcaacgcatt tgctgtggac aacctcgtat 180  
 cggaagatgc tctgactttc gaagacctca gcatcatgcc tcagaagcta aaggggtacc 240  
 cgggtggagta cctggtgtct tacaggaagg gcggggccgtc gttcgggtcg accgtgagcg 300  
 agaagatgag gagctcggag atgt 324

<210> 37311

<211> 329

<212> DNA

<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-036-Q1-K1-A3

<400> 37311

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accctgggta tttgtcagtg ggggttttgat gatgaagcca atcatttggt gatgcataga 180  
aatctgccag ctgtcagatg gggtgggtggg gttgaattgg aattgattgc cattgcaaca 240  
ggaggacgaa ttgttccgag attccaagag ttgagtcctg aaaagcttgn gaagggctga 300  
ttagtcagag agaaatcatt cggaacaac 329

<210> 37312  
<211> 314  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-A4

<400> 37312

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ttaaaactac ttgaattgtt attttccctt tccacaagag gtacatggca gattcctgtt 120  
gagatttgat cttttgggtg ctgttaagct ttctgaatgt gaattactaa ccatagtgac 180  
cttgtattag gttcaaaatg ctgggctgga aactattgga ctaagaccgg caaattctcc 240  
aagtctgtca actaattcag gggtttatga gcaattcatg cagaagtacc attagccaca 300  
gactcaaaat tcac 314

<210> 37313  
<211> 390  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-A6

<400> 37313

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cttgccaaaa ctaaggacac agttatatttc tcttaccttg catgcgaggc aagctcagaa 180  
tctgcaacta cttcagttaa taacaggctcg tacagtggag cagcacaaaag atctgatgat 240  
gtcacagtag atagtactat ttctgggaag aaaaccataa ggttttctct gaataacaga 300  
ggtgctgata gaaacacagc tgacagctcg aggacattgc tatcattcaa acgcaagttg 360  
agtgagaggg gaccacgagc tggtaagcaa 390

<210> 37314

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-A7

<400> 37314

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ccctagctct cgttgtcagc aatggccacc accgctgct ccagcctcct caagtcctcc 120  
ttcgcgggct cccggctccc ttcggccacg cgcaccacca ccccgctcgtc cgtggccgtg 180  
gccaccccg cgcgccggcg cgccccatc cgcgcgtcca ttctctcccc caaccgccc 240  
tacgacctga cgtccttccg gttcagcccc atcaaggagt ccatcgtgct ccgcgagatg 300  
accccgcgct acatgacgga catgatcacc cagcccgaca cgcacgtggt gatcgtgggg 360  
cgccgggtc 369

<210> 37315

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-A9

<400> 37315

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agatgatact tcatctttag cagaaactga tttggatggt ctgtccagaa ccaagcctaa 120  
agaagcaaac gagcttattt ctaagcagga atcgcaggat aagttggaaa aggctcctga 180  
tacctctgtg ccaactaatg ggaatagcta ccaagaaaag cttattggca gccagatat 240  
acgaccaaag aaattggcct taaaattagc atttacttta ccaacatcat gctacgctac 300

aatggctatc cgggagcttc tgaagacttc cacctcag 338

<210> 37316

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-B1

<400> 37316

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caggaagaag atcgaggatt ctttgctgga gaaggagaag aggctgcagt tcgcgattgc 120

caacgacagc tccacttcgc tcagcttcat ggcagcgtg tatgcttcgc ggttcgctgg 180

gaatatgata cggatcctga ggagaaacgc cacgcgcaag gccaggctgc aggaaagagt 240

gcccgcgaga ctgctgcaga aaccggctga acccaacttt tccgcagaag agcagtagta 300

tttcgcttct ctgacttctc gttttgcaga tacagatatg ggaaaattgt tgcgtga 357

<210> 37317

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-B10

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ctcaattaaa gtcagcagag gatgatcttg gtttcaagct ccctatgccc acaaagctgt 120

tgtatcgctt ttgcaatgct caactgcctt ttagtgagga ccatgacaca aataaaagca 180

tttccactca tggattgatt gggggctatg cgttttatga tcattgggtg aatgtgcatt 240

tgtcaccgct tgagcaaata gttgaagaga cgaaggactt ctatcgggag ttccctgatg 300

tatttcatgg gcgcaaattc attgtagtgg caa 333

<210> 37318

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<212> DNA

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gtggtcggta ttcacgtgat ttcttcaatc ggtatgggga tttgcggcac atccgacgct 180  
tgcggttctg gcctctcaac aagggtgctga tggagaagta cgagttcact gaaataaatg 240  
ctaattgggat ggcagatddd cttgttccaa tacttgattd tgttctctgag aagcgcccta 300  
cagctgctca attgcttcag catccatggc 330

<210> 37319

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-B12

<400> 37319

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atcttcaaga aggccagtag cttggccact agtggcagcc cggacatctg cttcaggttc 120  
tcggccttct tcacctaggt cacttgttga tggggaagg tacaacagtg ctgatgaaca 180  
gggcccctgt tatgccttga gttatgatga ttcggaaaagg gagegtatgt ttgaccatg 239

<210> 37320

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-B2

<400> 37320

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ggaaaaaatg ggaactcaaa gatatcgaag agtaaaaaaa aggatggaat aaaagagtga 180  
ttggttgaaa agaaagagaa atagaataat gagaatcata tggatttaca caaacctcta 240  
atgattagaa actaaaaacg agatctcgaa gtaattcgaa cgatttcgat tatcatttat 300  
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<210> 37321  
 <211> 363  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-036-Q1-K1-B3  
  
 <400> 37321  
  
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 agt 363

<210> 37322  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-036-Q1-K1-B4  
  
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 atctcgtcgt cggcgtgcc gtacaagagg acgcctccta cctgggtcaa gaccgccgcc 180  
 tccgacgtgg aggagatgat cacaaaggca gcgaagaagg gacagatgcc gtcgcagatc 240  
 ggcgtcctgc tccgtgacca gcacggtatc ccccttgta agagtgtcac cggcagcaaa 300  
 atcctccgca tcctcaaagc ccatgggctg gcacccg 337

<210> 37323  
 <211> 321  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-036-Q1-K1-B5

<400> 37323

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ttctggacat ctttgtttgc atccttgccct tcatgccacac tggatggggg ttgctcctga 120  
ttgcccgaagc tatcaggcct gtgattcaaa agatcgggct gtggggggtcg atcaaggctc 180  
ttgcccgggg ctacgagatc ctaatggggc ttctcctgtt caagccatt gctttccttg 240  
cctggttccc gtctgtgtcc gagttccaga ccaggatgct gttcaaccag gccttcagca 300  
gaggtctgca gatcttccgt a 321

<210> 37324

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-B6

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acggttgatg gtcagatgtt tggcgacag cattaccagt atccaaccac gtattttcag 180  
cctgctacac caattccttc taccactcaa agcaacctgc agtcttccaa caatcctgaa 240  
aagccagcag ctaaagcaga tcttgccaag gcaaccgcta atgggtgttc aaatgggtact 300  
ggtcacactc acagttacag tggaactgta ccaagccaac aaagttcagc actgacgcct 360  
gatggaactt atagggcgcc cttgctaggt ggagttcctt ctgcttggtta cctagagacg 420  
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<210> 37325

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-B8

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gcgtcctcga acttttcctg ctgctgagga tatccatgct gcaaagatgc gctatgctct 180  
 gggaatgaac gaggacatgt actctgcgtt caaagagatt gctgggtgaat accgtcgagg 240  
 taccatggat gctttttgagt atctttcata tgctcgagcag ttcggactgt cgcaccttgg 300  
 tcctgagatg gctaggctat tgcctgattc tcgaaaaccg aaggaacttg ctgatgcgca 360  
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<210> 37326

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-A10

<400> 37326

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 catgtgtgcc gctgcagctt gtgtctctgt gttgcttcat gttctctgtc tatctactct 180  
 catgtatggc agtttgggta cgggtatatc aagcatgttc agtcttcttt ggttgaaaaa 240  
 aacaaagaaa ttggacagaa aattagcatt tactctacca acatcatgct acgctacaat 300  
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<210> 37327

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-G12

<400> 37327

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 gcccggtcct tgagcaccgg cagctggccg gcggcgctgt gctgcgcgaa catcttctc 180  
 acaaaccatg gaggccacag gaggtagcgc aagaggccgc tcctgcggag gtgcacgtcg 240  
 gggttgccgc ggtacacgta cttgtcgatg cagttgttgc agtcgttggc gaggatacgg 300  
 acctggttca tccacgtgcg cacctgcacg ccgtgc 336

<210> 37328  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-035-Q1-K1-G2  
  
 <400> 37328  
  
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 cgctgaaact atactgtagc aagtagcctt tctgtgactgc agagacctag ccatccagat 120  
 ctaaattggct gcctgttcat agctaaaatg catagcacca ttattcattt gcaaacactat 180  
 cattcgattt ctacgagcta ttcattgtact gctcggatgc cagtcttctt gactctaatg 240  
 ctatctccat cagtgtactc atcctgatca tcttatttca aactacacta tgcgaacaat 300  
 gcagtctata gtacaaacag cgttctgcac agtcacatgc acgttttagct ggctataccc 360  
 taacagtaag gatccatgca gaaaacttag tttctaatac tacagtaggt caaatttaca 420  
 cac 423

<210> 37329  
 <211> 373  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-035-Q1-K1-G3  
  
 <400> 37329  
  
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 gcaggcctcc ttcgccggcg acatccgggg actccacatc ggccgcctct gctcctcccc 180  
 ttcccagcc tccgcctcgt ccaaggcagg gttcaccttc acggtggggt accacgagct 240  
 cgccggcaca aaggtgacgc tcaagaagcc cctgctggtg ctcaggaaga agaaggttaa 300  
 tgctggtgct caggaagaag agccaccgac ggcggcggag gtggagctgg aggtgatcgg 360  
 catcatccgg cac 373

<210> 37330  
 <211> 428  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-G4

<400> 37330

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agtttctgat ttgggataat cctgttctct ctgagtgaat caacatgtct gggaatgatg 120  
ataagccaca tgctgctgca gacagaataa aggcagccac gttatcagtg gctaagggat 180  
tgagcagggc tcaagctgaa cgcgctgcga ctgctgctgc ccgcaatgtg aatgcctatg 240  
ggcagaagga agagggacca agccgctggc aggagaggaa ggaagccaag agacagatgt 300  
atctgatgag tacagagaag gctgcgaagc tgggcaactgt gaagccaaaa gcttcagaaa 360  
cttcttctgt tggcgcatat acccaatgcc agaagtgttt ccagcatggg cactggacat 420  
atgagtgc 428

<210> 37331

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-G5

<400> 37331

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tatttaccga gcaagttctg gcaaaagcac taaatcaact ggttgaacag atacctctat 180  
ctttgctatt catgaggact gtcatgcaag caataagtgt ttttactgca ttggtggatt 240  
ttgcatgga gatcatgtca cgccttctga gcaagcagat ttggaaatat tccaagttat 300  
tggtaggact tctgaagtgt gctatcttga 330

<210> 37332

<211> 245

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-G6

<400> 37332

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cccacgcgtc cggatgggtca ctaatTTTTa caagcatttt aaaactcata aatattggat 60
acatttttaa ttggaattgt atttaatcat tgccttttgt gatcactccg ataatcgggt 120
tatggcaacc tattggaacc aaaaacaata aatcaactgg ttgaacagat aactattact 180
ttgctattca tgaggactgt catgcacgcc ataagggttg ttgctgcata gatagagttt 240
gtgat 245

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<210> 37333
<211> 327
<212> DNA
<213> Zea mays

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<223> Clone ID: LIB3069-035-Q1-K1-G7

<400> 37333

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cccacgcgtc cgaaaaaaaa aaaattaaat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
gaaaaaaaaa aaaaaaaaaa aaaataaata aaaaaaaaaa aaaaataaaa aaaaaaaaaa 120
aaaaaataaa aaaaaagaaa taaaaaaaaa aaggggggtga acttttagaa gataaaagtt 180
tatgatcggg tatttatgag gactaacatt taattaaggg gagctaaaat tgaattgatg 240
ggacttgttt ataaacatga tgtcattgga aaaacagcgg gctgaccaag ataaatccca 300
tggtataaat accatTTTTg aaaagtg 327

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<210> 37334
<211> 337
<212> DNA
<213> Zea mays

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<223> Clone ID: LIB3069-035-Q1-K1-G9

<400> 37334

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ttctgttggg taacaaagtt gatgtagatg gtgggaacag ccgtgtggtg tcggagaaaa 120
aggcaaaggc atggtgcgcc tctaaaggga acatcccgta ctttgagacg tctgctaagg 180
atggaacgaa cgtggaagat gccttccagt gtattgtaaa gaatgctctg aagaatgaac 240
cggaggaaga attgtatgtg ccagataccg tggatgtggt aggtggcaac cgggctcaga 300
gatcatctgg ctgctgttaa gacatgaggc atccacg 337

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<210> 37335  
 <211> 367  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-035-Q1-K1-H1  
  
 <400> 37335  
  
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 cagccttctg atcgtcaccc atggccactg ccgaggtcca gaccccgacc gtcgtggcga 180  
 ccgaggaagc gccggtggtg gagaccccggt ctctcgccgc cgtcgtgccc gaggaggctg 240  
 ccccgccgn cgaggccaag gtggaggagc cagctgcccc ggcggagacc gagccagctg 300  
 ccgncgctga gcccgaggcg gccccgtgg cggcggtatga agagacgcca aaggaggaag 360  
 agacggc 367

<210> 37336  
 <211> 338  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-035-Q1-K1-H10  
  
 <400> 37336  
  
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 acgatggtac atggcaagtc aagtgcctta ggttctggag tgtgagaacg ggtaaaaccg 120  
 acacgaagcg ctgaatcatg tacatctcta gatgggagca caaaagttat gggttggcaa 180  
 ctgccaggct catctctaga gggcagtgc aaagtctgag gttggaaacc accagtctta 240  
 tcacttgaac ggattgctga tggttcaaga tcacaagcat cgtgtacttc tacgcaaagg 300  
 ggcacataat cttcaggttg gcagcgatca agttcata 338

<210> 37337  
 <211> 333  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations

<223> Clone ID: LIB3069-035-Q1-K1-H11

<400> 37337

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agacttgatg cgattagcat cccgttgctt gcaatatgaa gcacgtgacc gtccaaatct 120  
gaaaactgtg gtatctggtc tcacaagtct ccagaaagat gcttatactc cttcgcacac 180  
tttgcttggg attcaacatg ataagaacaa ctcaggtcaa gtttccttat ctgctattgg 240  
gaaagctttt gccagagcag acctgaatga agtgcattgaa atattgctgc atgatggata 300  
taatgaggac gacnaggcta atgctgagct atc 333

<210> 37338

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-H12

<400> 37338

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actaggtgcc gtagcaatac aagctacaca cgctgttaca attgcgacgg cgctaaaac 120  
tactgaaaga gctaactcggg cgcattcata tacagcatca catcaattct cagtatccta 180  
ctgtcattct gatacatata cagcagctca aatgatatca agctgcaaac actgctctta 240  
tactgagca agattgataa tgactgata 269

<210> 37339

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-H2

<400> 37339

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gcgagtgcga catggccctt gcagcttctc gccagtcgtg gcctctccct cgctgcggcc 120  
tgctggtctt ggcccttgca ctggcgacga ccgccgcggt gggcagcgcg cagctgtcgt 180  
ccgagagcta ctacgacgcg tgctgccccg cctgccttct caccatcagg accgacgtct 240

cgacggccgt gctgctggag ccccgcatgg gggcctgcct tctgcgactt cacttccacg 300  
actgtttcgt gcacggttgc gacgcgtcgg tgctgctaga cgacacggcg agcttcaccg 360  
gcgagaaggg ggcggcgccg aacgcggcgt cgctcccggg cttcgacgtg atcgacgaca 420  
tcaagatgct gctggagct 439

<210> 37340

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-H3

<400> 37340

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gcgagtgcaa catgagcett gcagcttata tacagtctag gcctttggct cgcgtgcgga 120  
ctgctgggtct tggccctagc acatggccac taccgacgtg caggacagca cgcagctgtc 180  
gaccgagagc tactacgacg gcggetagcc ccgctgcct tctcagcatc aggaccggag 240  
gctggacggg cgggc 255

<210> 37341

<211> 51

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-H7

<400> 37341

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<210> 37342

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-H8

<400> 37342

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taaccacacc acaactacag ggaggaagag cagaacagag gcagagagag agagagccat 120

ggcggcggtc gccgtgagcg ggaggctgcg gacgctgggg cgcggcgcgt cgggcgcgt 180  
 ggtgtcgctg gcgtgggacg ccgcgtcggg ggagctggtc gcggtcaagt cggccggcgc 240  
 gagcggcgcg gcggcgctga agcgggagca cgcggtgctg gccgggctgc gctcgccgca 300  
 tgtcgtgcgc tgcg 314

<210> 37343  
 <211> 330  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-035-Q1-K1-H9  
 <400> 37343

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 gccgagattg gagaagctga gagtacaatc gcagaagttg aagcagttgt caagccagca 180  
 gaagattaaa ctaaaaaac tcttggtttg ctgaactgtt agcgcacatc ctattttcgc 240  
 atattgagcc cttgtgagcc tattacgaga tgtttgaggc gtgaaatcct gtaccattat 300  
 catcacttct atcttgaaat ttgagtttct 330

<210> 37344  
 <211> 342  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-036-Q1-K1-A1  
 <400> 37344

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 acaggtggtg ggatggccac cagtctgcaa ctaccgcaag aacacgatga ctaccacca 120  
 gctggagggc agcaaggagg atggtgatgc caagcagggt caggggttcc tgtacgtcaa 180  
 ggtcagcatg gatggcgcg cgtacctcag gaagatcgac ctcaagactt acaagaacta 240  
 caaggacctg tcgaccgcg ttgagaagat gttcagtggc ttcattactg gcaaggacgg 300  
 ctcatctgag taccgcaagg atggtgaata tgttctgact ta 342

<210> 37345



<211> 357  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-035-Q1-K1-G11  
  
 <400> 37345  
  
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 ggacagcatg acggtcgggg agggctctgct catgatggac gatgaagaga gggtagcgcc 120  
 atgctgagat cccgaccagt ggctatcgca agctgcgcgt ctgactgcga cgtcgcctag 180  
 tcaagaacta cgaccagatc agggacaacc gctgcaaaaa ctgtccattt gtatagatgg 240  
 acagagagca cgacatcacc gtgaactaga ccaccccgaa ctttactgga attatctgtc 300  
 tgatggaccc cactctgagc taggcagccc gttgggtgaa aattggcagg ttcatta 357

<210> 37346  
 <211> 334  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-035-Q1-K1-E12  
  
 <400> 37346  
  
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 ggacagcctg gcgttccagt cgcgtctgct ggccaagtcc ggcatcggcg acgagtcgta 120  
 catgccgcgc tgcgtgttcg agcccaacgc cagctgcgcc accatgaagg agggccgcgc 180  
 cgaggcgtcc acggccatgt tcgcggcgct ggacgagctg ttcgacaagt gccgcgtccg 240  
 gcccaaggac gtgggcggtgc tgggtgtcaa ctgcagcctc ttcaaccgga cgcccttct 300  
 gtccgccatg atcgtcaacc actacaagat gcgc 334

<210> 37347  
 <211> 286  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-035-Q1-K1-E2  
  
 <400> 37347  
  
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gtgaacgctc cggcggggaa gaagcccaag gccgagaagc gcctaccggc gggcaagtcc 120  
aaggagggcg gctagggcta gaaggggaaa acgaatgcga agaagtccgt ggagacctac 180  
aagatctaca tcttcaaggt gctgaatcag gtgcaccccg acatcggcat ctcgtccaag 240  
ggcatgtcca tcatgaactg cttcatcaac gacatcttcg agaagc 286

<210> 37348

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-E3

<400> 37348

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tggagggggc gtcaggcgta cgacgacttc gacgggacac gccagatctc gtggttgtcg 120  
agttcgtttg actccaaccg tggccatgcg tcgggacact ggctacgcgg gtcccacgta 180  
ggctgccccat tttgggacct ttgtcttcag acacgtgcat ttttacagta tctcgtttta 240  
gaactgaatt ctacattaac tatcacagtg caagtgtata tcaccctctg ggctcctaaac 300  
tatatttaga tcgttttggg atactcccta gtggtaatag actc 344

<210> 37349

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-035-Q1-K1-E4

<400> 37349

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agcgccatcg acttcatctc ggattgaagc aatgtcgtcg gacgatgagg tcagggagga 120  
gaaggagctc gacctctcct ccaacgacgt tgtcaccaag tacaaggctg ccgccgaaat 180  
cctcaacaac gctctgaaga ttgttgtgtc tcagtgaag ccaaaagtca agattgttga 240  
cctttgcgag aagggcgact ctttcataag agagcaaact gggaatgttt acaagaacgc 300  
aaagaggagg attgaaaggg gtattgcttt cccaacctgt gtatncgtca atgacacagt 360  
ttgccacttc tcaccgcttg caaccgatga tgccgttctg gaagaaaatg acatgggttaa 420

aattgatatg ggct

434

<210> 37350

<211> 124

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-E5

<400> 37350

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aatggagaca ttacagtagt agaggaagca gagaacataa ttcaggcaat caagtcagtc 120

agag 124

<210> 37351

<211> 118

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-E6

<400> 37351

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ctgcgcgccca agcaccaaag ctccgatggg ccgcactaaa cagactgctc gcaagtcg 118

<210> 37352

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-E7

<400> 37352

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cacatctatt taactaacta actaactggc tagctagctc gatccgcaga gcaaagcgaa 120

agcagcaaga agcaaagcaa tggagaaccc tgcgagtgtg ctagttctac cagcgcagtt 180

caccaaactc accttcggaa acctgtacat ccgccgggcc gggccgggca gcagggagat 240

aaccgaggag ggcaggtgcg acctggacag gagatactg agtaacttcc ccgtctacga 300

cggccgcggc ccgcacgcca gccttggtggc ccgcgtgcag gggatcacca gcgaaatcgg 360

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408

<210> 37353

<211> 371

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-035-Q1-K1-E8

<400> 37353

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tgaaaatagc tcattttgta gttacatttg catcaagctt tgatgattgc tgtacaagga 120

tgatatggcc tncgcctcaa agctgtctgg tattcagaag caggttttgg cgctgtacag 180

gggattcctt cggacagcac gccttaaggc ccctgaagaa cgccgcagga tcgagtctgt 240

tatcttggca gagttccgtg acaacgcaag gagtggtgac cgtaggaact ttgtacacat 300

agagtacttg ttgaggagag ggatgaagca gcttgagcag ctcaagaatc ctgatattac 360

tggactcgct a 371

<210> 37354

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-E9

<400> 37354

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tgtggcgaga gagacatggg ccggggtggg aggacgatgc atctagctgt tgacgatgac 120

gaaaaatttg tgatgatcgt ggatatcaag tgtaaagatc tagagaggat gatgatgtaa 180

ctttttctct atttttcttt cttttttggt atacgtccac acacatactt tgctaatacc 240

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gttct 305

<210> 37355

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-F1

<400> 37355

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ccttcgatct agcttgcctt gctaataatg atgatgtcat gcttcttgat tgggtcaagg 120

gattgctcaa ggagaagaaa ctggagagtc tggtcgacca agatctagaa cacaactacg 180

tgcacgttga ggtggaatct ctggtacagg tcgcactcct ctgcactcag agcaacccca 240

tggaaacgcc taagatgtca gaggttgtga ggatgctcga aagcgatggt ctgcgccgaga 300

gatgggaaga gtggcagaaa gcggaagtag ta 332

<210> 37356

<211> 223

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-F10

<400> 37356

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tagttcacgt ggaagagtat gaacatgagt cagagtggct caaatcgata actcgccgac 180

ataaacgata aaggctaatt ttcagtacat gcataacctg tat 223

<210> 37357

<211> 338

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-035-Q1-K1-F11

<400> 37357

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ggatgcggtg ctgatgctcc actacgccta tggatgcggtc aagaagtcca tccacgcgta 120

cgtcgcgcgt gcgggggcca ccgtcgtcga ggtgcccctc ccattccccg tcgcgtccgc 180

cgacgcaatc attgccgagt tccgtgctgc gctcgcggtc gccaaaggaag gagggcgtag 240

ggtcaggctc gcagtcacgc accacattac ctncatgccc agtgctgca tcccagtaaa 300  
ggagctcgtc gccatctgtc gagaagaggg cgttgaca 338

<210> 37358  
<211> 340  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-035-Q1-K1-F12

<400> 37358

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cgcgggcgcg gcggtcctgg cagcgggcgt gctgctgctg gcggcagtg gggggacggc 180  
gtcgggcgcg gtgagctgcg gcgaggtgac gtcgctcggtg gcgccgtgcc tcgggtacgc 240  
gatgggcagc gcggcgctgc cctccgcggc gtgctgcagc ggggtgcgct cgctcaacag 300  
ccgcgcgtcg tcggcgggcg accggcaagc cacctgcaac 340

<210> 37359  
<211> 383  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 37359

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agccttaggt gctgcctggc ctgcgtcctc ccctgcggcg cgctggacct gatcaggatc 180  
gtccacctca acggccgcac cgaggagtac ggccggcccg tggccgcccg cgagatcctg 240  
gccgtcaacc cgaaccacgt nctcagcaag ccgtgctccc agggcgctgc cgtgcggagg 300  
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gnctcgtcgg tgccgcccga gaa 383

<210> 37360  
 <211> 383  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 37360

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tcctcagtca cctcccatgg cctcgtctac ctgctgcagc gaagccgacc accgtttcct 180
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tccatggcag gagctccgat cggaccctgc tgaccttggc actcggcgtg gctccaagca 360
gggccttctt ccccaggacc ggg 383
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<210> 37361  
 <211> 375  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 37361

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aaccgcacaa gcgcgcgagg caggagagag agagaggcgg tgagcaaac aatggagggg 120
aaagaggagg acgtgcgcct gggcgccaac aagttctcgg agcgccagcc catctggacg 180
gcggtgcagg gcgccgttga cgacaaggac tacaaggagc ccccgccggc gccgctgttc 240
gagccccggg agctcaagtc ctggtccttc taccgcgcgg gcctcgccga gttcgtcgnc 300
accttctgt tcctctacat caccatcctg accgtcatgg gcgtctccaa gtccacctcc 360
aagtgcgcca ccgtc 375
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<210> 37362  
 <211> 413  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-F8

<400> 37362

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ggaagatgca cactggaac gagcagagga agactaggtc cttctatgac atgcttgaca 180  
agggccagat cagcgttgct gtcgaggagg taagagttct tcccaggtat tttcaaagaa 240  
ctctctcgag agcatgacaa agtgattgct ggctgtggaa atttgtcctg gaaataagcc 300  
caaccatttg ggaccaccaa attttgccga attttccttt cttttggatg aatatttgag 360  
cccgtccatg taaataccaa acatttggcc tttacttcat ctcttttttc ctt 413

<210> 37363

<211> 93

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-F9

<400> 37363

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agggactaat tgaataaaaa acaagcataa act 93

<210> 37364

<211> 339

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-035-Q1-K1-E10

<400> 37364

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tggcggacca gctcaccgac gagcagatcg cggagttcaa ggaggccttc agcctcttcg 120  
ataaggatgg cgacggctgc atcactacca aggagcttgg aacggtgatg cgctcccttg 180  
gccagaacct taccgaggca gagcttgacg gacatgatca acgaggtcga tgcggatggc 240  
aatgggacca tcgacttccc ggagttcctg aacctgatgg cgaggaagat gaaggacacg 300



gactcagagg aggagctcaa ggaggccttc cgcgtcttc

339

<210> 37365

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-G1

<400> 37365

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ggaactgggt ctgtttattg agaggaaact agacaaaaag gatttcggtc cattgatgtt 120

ctactcccaa cctgatggtc ctatagtgg aagtggcacc ttcaaatcca ctggtctagt 180

tccaggcgaa cctgaagcat tctatgtggg tcctccgtct agtgaaaaac tgccaaagaa 240

tgcttcacct ggggctgggt tgggtgggtc cataacctat ggtactgtaa gcacatttaa 300

caagaaagat gaacaaaacc accgtgcttc aatatcttat aagatctcat ataccatttt 360

<210> 37366

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-G10

<400> 37366

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tctgttgggt aacaaagttg atgtatatgg tgggaacagc cttgtggtgt cggagaaaaa 120

ggccaaggca tgggtgcgct ataaaggga catcccgtac tttgagacgt ctgttaaaga 180

tggaacgaac gtggaagatg ccttcagtg tattgtcaag aatgctctga agaataaacc 240

ggacgaagaa ttgtatgtgc catataccgt ggatgtggta tgtggcaacc acgctcagag 300

atcatctggc tgctgttaag acatgaggca tgcact 336

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-C4

<400> 37367

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ggcgtgcgtc cggttcacca acaggtactg gatgcccacc gacgacgaca caaactgacg 120

atcaccgccg cagaggggaac aaattactga tagatcagcg tagcacgttc ctgagctagc 180

cccgccccct ttatgtttctc caattcagta atgcaatgcg tttttat 227

<210> 37368

<211> 77

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-C5

<400> 37368

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ggaaataggg catgctg 77

<210> 37369

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-C6

<400> 37369

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ctgggccgtc accctcgctg ggatcctcgg cggcggcgcc ctctcgtct acaacaccag 120

cgcctctcc ggctaaggat atccaatgca tgcgcttctt gcgattcgtc atgtaaaatc 180

agggtgtctg tctataatct agcctccatg gatgctcaac cttcgtcatg taacaataat 240

cagtgtact cttcattaca taattttgat gctatatata tataccccat ccttcctt 298

<210> 37370

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-C7

<400> 37370

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tgaatccagc catggccggg ctgagaattt ccgacagcag gaaaggggtgc agcatgtaaa 120  
gggggggagca gatgagatca tgtttgggat gctcccagat atgtatagtt atgtatcagc 180  
cagttgtttg taaattacca attaataa gaagttatta gaaaaaatg gagttaactt 240  
gtacgtttcg tgtgctctgt catctgaagc aattaaagtg gttagc 286

<210> 37371  
<211> 343  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-C8

<400> 37371

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tcacctgcca attcatgcac atcatttcca tcattgtctg tgccaatcat acatgaccaa 180  
gagttagcaa acagagaaaa taaataatca gacattcaga tgggtatgtg ctgtgtgtag 240  
caacaaatta taggatgacg aacatagagt atttgcagtc ttgttggtga gtattgttca 300  
tttaccggac catctaaagc ctttgtttct acactgctct ata 343

<210> 37372  
<211> 332  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-035-Q1-K1-C9

<400> 37372

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ttccctgagc tatattaata cattgggtatt aggccttcca agggagtcac attataagga 120  
gaacctggaa caggaaaacc tcttcttgcc aagaacaaat tttaggggtg agcatgatac 180  
agtcactgag aaggacctag aacatctnct gcaactttta gataataagg aaagcgggga 240  
tacagcttgg cagaatttga tggagcgtag aacctncaac atgacataca atgcctggcg 300  
gcgtgagcct gangagggac ctataatgta ct 332

<210> 37373  
<211> 389  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-D1

<400> 37373

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ttgaccttcg gcgaggctctg cccggcgcg ggggcgttcc gcggcctcgt cgtcagggcc 180  
gctaccgtcg tcgcccccaa gtatacaaca cttaaagcct tggctgatag agtgcttgta 240  
aagattaact cttccgagga gaagacaact ggtggaatct tgctccctac gactgctcag 300  
tccagacctc aaggtggcga ggtagttgct gttggagaag gaaggataat tggggataag 360  
aaagttgatg tcagcattca ggttggagc 389

<210> 37374  
<211> 318  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-D10

<400> 37374

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cgtgcagggc cagcgggcaa ggggaaggag gtgtcagcg gtgtcgtgtt ccaacccttc 180  
gaggacatca agggggagct cgcctcgtg cccagctact cagacaagtc gtcgcgcgcg 240  
cacaagttcg tggatgactg cgaggccgcc ctcaacgagc agatcaacgt ggagtacaac 300  
gcctcgtatg cataccac 318

<210> 37375  
<211> 333  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-D11

<400> 37375

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atggacggtg atgagatgac cagggtatto tggcagtcta tcaaggacaa gcttatcctc 180  
ccatttctgg acctggacat caagtactat gatttgggga tactgcaccg tgaagcaact 240  
gatgacaagg tcacagtgga ggctgcagag gctactctca agtacaacgt ggctattaag 300  
tgtgcgacca ttactccaga tgaaactcgg gtt 333

<210> 37376

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-D12

<400> 37376

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ccaccaccag cagcctctgc ctgccaccc tcctggtgct cctggcgggc gcgtcaccgc 120  
tgctgagcgc agctcaaaag gccgccccga aggtccggc ggccggcgaag gcggcgccag 180  
ggccggcggc gtcgtcgtcg tccggcgcgg gcgcggcgga cgccggccct cccacagacg 240  
tgaacaaggc gctcaaggac gaccagttca gcgagttcaa gcagctgctg cagcacgcgc 300  
gcgtggacac gcagatcaac gcgcagctga cggaca 336

<210> 37377

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-D2

<400> 37377

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acaaccaatt tgatcaccga gaagtcatca atgaaagatg cttgacagga gccagttcaa 180  
actaacgaac catctgagca ggactgata actgaagaga ttgataagcc acagcatagt 240

gaaaagattg ctacggacac gagatggact gaagaatcta ctgaggagat gcttgagctt 300  
gaaagtaatg cactgaatt aaacaaggat caatgagaac ttgaagggtt ttcattctg 358

<210> 37378  
<211> 431  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-035-Q1-K1-D3

<400> 37378

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gcgagcttct cctcagcttc aaccccgctg tcaagaaggt gcccgctgctc atccaccacg 180  
gcaagcccgct ctgcgagctc cagatcatcg tgcagtaagt cgacgaggct attcccggcg 240  
acgcacctaa tttccttcca tccgaccact acgaccgcgc cattgctcgc ttctgggcct 300  
gctacgtcga cgacaagttc tacagcgcgt ggatacccggt gttcaggggc atgacggcng 360  
aagagatggc ggaggctgcc aggcaggccg tcgcggcgct ggagacactg gagcaggcgt 420  
tcagggagtg c 431

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<211> 412  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-035-Q1-K1-D4

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acgctgttgg acctttgttg gacccttggc attccaactc caaaagcaaa cattagaaaag 180  
gaagatattg tgtcaaagct gttggacttt attgctgaac ctactctgc agctgattct 240  
gggctctctg atgaccaggg ttcaaattct aaaaaacgca agagaggagg tgaaagtgca 300  
cgtaagactt ctgatagcac acctagtang tcaagaaaga aattatcaat gacagcactt 360

ctagtaaaag gcagaaaaaa gcgctcgaat atgataactga tgaggatgaa tc 412

<210> 37380

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-D5

<400> 37380

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tgctgagcgc agctcacaac gacgccccta aggetacggc tgcggggaaa gctgctccag 180

ggacggctgc accctcacat tccgtcgc at gcgtgccga cgctgaccct ctcacaaact 240

tgaacaaagc gctcaatgac gaccagatca gcgagttcaa acatgctgct gcacgacacg 300

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<212> DNA

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<223> Clone ID: LIB3069-035-Q1-K1-D7

<400> 37381

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cctttccaag gagatcatgg actcgaccaa ggctgcgggc gagctggtga agctgaaccc 120

tggcagcgaa tacgcaccgg ggctggagga caccctcatc ctgaccatga agggcatagc 180

agccggcctc cagaacaccg gttaaaccac gaagagggga tcttttttct cctcctgac 240

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<210> 37382

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-D8

<400> 37382

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aaagagcttg ttcggagatc gattgcagca acagaggaat tgaagcgatt tccaacactt 180  
caatcggata tagcagctgc tgcaaacgaa agcctggaaa gattccgga ggatggacgg 240  
aagactgttc ttcgtctaata agagatggaa gccagctacc taacagtaga atttttccgc 300  
aagcttccta ctgaaccaga gaaagcggct gataagaaca ctccagttag tgatagatat 360  
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gagactc 427

<210> 37383  
<211> 330  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-035-Q1-K1-D9  
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cactccctcc acaacgcctt cagcacctac ggcgaggctc tcgagtcctaa gatcatcctc 180  
gatcgggaga cgcagaggtc ccgcggcttc ggcttcgtca ccttctccac ggaggaggcg 240  
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aacgaggccc agtcccgcgg cggccgtgga 330

<210> 37384  
<211> 287  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 37384

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acctcctctt ctttgccttc gccgacgcat ggggctgcag gtgcggcgga tctgcctta 180  
 gtccaggcgg cgggtggcgg gtgcgggtgg gatctgggtg tgggtgggtg ggtgggtggaa 240  
 gcggtngggg tgggagtggg ggggggtggat cgggtgggtg gagcggg 287

<210> 37385  
 <211> 348  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-C3

<400> 37385

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 tagtatggta ctgtacactg taccggctct gtatgagaaa catgaggata aggttgatgc 180  
 ttttggagag aaggccatgg tcaacctgaa aagggtactac gacatatacg acgagaaatg 240  
 cctattaaag attacgtatg gcccatataa agacaagaag caccattaga agcttagaat 300  
 cagataaggg tacctggaga ttgatcatct gtaatgacca ttattcgt 348

<210> 37386  
 <211> 335  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-A9

<400> 37386

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 gccaatgtcc agaggcttaa gacatacaag gccaaagtgg ttatcttccc aaggcgtgcg 180  
 cgcaaggtga aggctgggtg ctctactcca gaggagcttg ccaccgctac ccagggtccag 240  
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<210> 37387  
 <211> 243  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-B1

<400> 37387

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ctgctcatgt gatcaatcat aagagtaaga gatcgcgttt gaaacattag caattagcgt 180

aaggaaagac cttgctactg aacgaatgac atcaagtata aatggttcga cacatatatt 240

tca 243

<210> 37388

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-B10

<400> 37388

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ccaagcctat agcagagggg tataacctcg ccggagaaga caactatccc catggaccga 180

aggtccatga cacctggtat cagcttcagg ttatcctcac caacaacagc cggccattcc 240

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<210> 37389

<211> 334

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-035-Q1-K1-B12

<400> 37389

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aaggctactg ccacttcaga ggtcggcctg ngaggctgca tcgcatccac atggngtacc 180

agcccatgca cggcaacggc gggacagccg gtgccgggac atcaggctcc ggcggcggcg 240

gcggcgaggaga ccacttgcg caccaccacc agcagcgccct gcacagcccc cgcattggccc 300  
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<210> 37390  
<211> 350  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-035-Q1-K1-B2  
  
<400> 37390

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tgttggtccc gcgtgagtcg agagaggatt gccaaagtcatt gggctaccac attcccaaag 180  
gcaccaaggt gctcgtgaac gcatttgcga tctccaggga ttcaaggtag tggaacaacc 240  
ctgaagattt tagcccagag aggtttcaga ataacaattg cgactacaaa gggaccgatt 300  
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<210> 37391  
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<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-035-Q1-K1-B3  
  
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tggttagatg aactccgagc ccatgccgac aagaacattg tgataatgct ggttggcaac 120  
aagagtgatc tcgaggagca gcgagcggcg agcactgaag atgccaagga gtttgccgag 180  
aaggagaacc tcttcttctt ggagacctct gcgctccagg caacaaacgt agagagtgc 240  
tttcaaactg tcttgacaga gatattcaag atccacagca agaagaacat ggtgtcggag 300  
ccgaagagca atggagctgc ccaagcaatg ccgggggacaa aggtccttgt cccaagtccg 360  
gcgcaggaaa tccccaaagag caagtgcgtc agttccatgt gatgcttcta cgtttgggta 420  
ctggtgg 427

<210> 37392  
<211> 416  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-B4

<400> 37392

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agggtctgct gaaagtgttg gctgggattg ataccaactt cacagttacc tcaaaggcat 120  
ctgatgagga tggcgacttt gctgagctat atgtgttcaa gtggaccagt ttgctcatcc 180  
ctccgaccac tggtcttgct attaacctgg tcggaatggt ggcaggaatt tcgtatgcc 240  
ttaacagcgg ctaccaatcc tgggggtccgc tctttggaaa gctgttcttc tcgatctggg 300  
tgatcctcca tctttacccc ttcctcaagg gtctcatggg caggcagaac cggacgccaa 360  
caatcgcat cgtttggtec atcctccttg cgtctatctt cttcttgctg tgggtg 416

<210> 37393  
<211> 423  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-B5

<400> 37393

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gagtacctgg cactaagtt catggaagga aactcttget ctgctttgca catttgcaca 120  
gaaagaggag tggcatatct tgtgtgacac acttgcgctc aggcttctga atgtcgggtga 180  
tacactagct gcgacctctt gttatatctt tgctggaaat attgacaaag ctgttgaaat 240  
atgggtccgc accttgaaat ctgaagatgg tgggaagact tatgttgatc ttctccagga 300  
tttgatggag aaaaccatta cgcttgccct tgctacgggc cagaagagat ttagcgcgtc 360  
actgtctagg cttattgaga actacgctga attgctggct agtcaaggct ttcttaaaac 420  
tgc 423

<210> 37394  
<211> 298  
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-035-Q1-K1-B6

<400> 37394

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ttgccattgc cgagaaaatg gacagtgtag aactcgtgga catcctgaaa gaagctggtg 120

gaaaagccgc aaagcagcaa gtacatcctg cgaattcggc gaagcaactt aaggaaacag 180

tcagcgatat cagacacgac gtncagtccc agttcaagca aacacgttag accaagatgc 240

aagtcaacca gatcaagaag aggcttgaga agcttcacat cggcgggctg aacaacgc 298

<210> 37395

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-B7

<400> 37395

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atgctggaca aagacaactt tgccttgtag tatgtgatat tgccttgtag tctgctagcg 120

ctacttggtc atccttcaac atcgcacaa atagtgaaca gaatctgctg ggccttctgt 180

gtttatttgg aagcagtttc agagctgccc cagttgcgcc tgatgcaaaa taccagatt 240

gttgagccgt tcacagctca ttatgtgttt gcaactgggtg ttgcaagggt tcttaactgt 300

gcacattggg tccttcatgt tttggatacc ccaggccgct tggtgactgc tctgggctat 360

tggtt 365

<210> 37396

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-035-Q1-K1-B8

<400> 37396

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cttttagtac actatcttact atcacttttgt tgatttgcta ggtgataaca aagttctgct 120  
 ctgaaagaat tgccaagtat gcttttgagt atgcatacct taacaatcga aagaaagtga 180  
 cagcagtgc taaagccaac atcatgaagc ttgctgatgg tttgttcttg gagtcttgcc 240  
 gtgaggttgc aaagaagtac cctggaattc aatataatga aatcattgtg gacaactgtt 300  
 gcatgcagct tggtgcaaag cctgaacaat ttgatgttat ggtcacccca aatctttatg 360  
 gcaatctggt ggctaatagta nctgcaagta ttgctggagg cactgggtgtc atgcctgga 419

<210> 37397  
 <211> 264  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-B9

<400> 37397  
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 attggatggc accggatggt gttgatccgc agcagacata tgtacctgca gatgatatat 180  
 tgagtcttgg atgcactgtc ctggagatgt tgacacgcca gatacgctat cctgaccttg 240  
 aatgggcaca agcttatata cagg 264

<210> 37398  
 <211> 411  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-035-Q1-K1-C1

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 caatggcggtt gcggaatggt ggtgggtgggtg gtggagcctg tcccgcggcg gttgtgctgg 120  
 tggctgcggc cgtcgcggcg ctgctgggcg cgggggtggc ggccggcgacc aagttcgacg 180  
 acgtggtgca gccagctgg gccaacgacc acgtggtgta cgacggcgac ctctcaagc 240  
 tccgcctcga ctccagctcc ggcggagggt tctgtgtcaag gaccaagttc ctgtacggca 300  
 aggccagcgc cgacctcaag ctctgtccgg gggactccgn cggcgtcgtc acggctttct 360

atctgtcgtc gggccgggac aagcacaacg agttcgactt cgagttcctg g 411

<210> 37399  
<211> 337  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-C10

<400> 37399

cctaaatcca gcaaacgcaa accccatcat gccgtcgccg cgatgtctcg ccgctatgac 60  
agccgcacga cgatcttctc gccggagggg cgtctctacc aggtggagta cgcgatggag 120  
gcgatcggca acgccggggtc agccctcggg atcctagcgg ccgacggcgt ggtcctcgtc 180  
ggcgagaaga aggtgacctc caagctcctt cagacctcgc gctccgccga gaagatgtac 240  
aagatcgact cccacctggc gtgcgccgtg gccgggatca tgtgcgacgc caacatcctc 300  
atcaacagcc gccggctgca cgcccaacgc tacgcgc 337

<210> 37400  
<211> 335  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-C11

<400> 37400

cccacgcgtc cgcactacct tcccaacatg ttcaagaagt ttgtcgttca caacgtctct 60  
gagctggagc tgctgttgat gcacaacagg acatactgtg ccgagattgc ccacaacgtg 120  
tccacccgga agcgcaagga gatcgtcgaa cgtgctgcgc aactggacat cgtggtcacc 180  
aacaagcttg ccaggcttcg cagccaggag gacgagtga atggccatta tttccggttg 240  
tgatccgctg gtgtgcaaga tgttgctgag atccgagatt cattctctgc cattttttta 300  
tgcttatgtt agacttttcc aatggacaaa attct 335

<210> 37401  
<211> 340  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-035-Q1-K1-C12

<400> 37401

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gagatgcatg ctgctgcttc tgggggctct cgccctcgca ttgccggcg ctgcgactgc 120  
gaccgcgtgg cctcaccctc acggcgccgc cgccgncccc gccgcgggtg cgggcaggcc 180  
gggcggcgcc gagcgctggc acagggatct cgcactcagg aggatggaga gcgtcagatc 240  
ctccttcggg gccagaagag atttggcgac ggcttcgcgc agcgcgcggg tgtaccacgt 300  
gacggactac ggcgcggacc ccgaccgcgc cgnccgacgcc 340

<210> 37402

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-A8

<400> 37402

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gttaatccta tcttgccatt taatgacaaa cagggggcac ttgccgggtt ctgcttagct 120  
gtgctgccat caacagaacc cattggaatt attgccaga atttcctggc tggataccat 180  
gttgttttcg acagagaaag catgaagctg ggctgggtacc gctccgaatg taagccatat 240  
ccatctgcca tggaaataga ccaaattcta ccattcacct ggtactccgg aagtgcataa 300  
catgtggtac cgtccattcc ttgcgagcac aggccacgac gttgaggaca gcacga 356

<210> 37403

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-C2

<400> 37403

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gaaagggcta agccgaatga atggaaaagg taaaaaaaaa aaaaaaaaag gcgggtctac 120  
ttaaagggtg cacctttacg gtcattgataa tgcaacgaat tacctttttg ctactggtcc 180



tgaaaaataa tggagtctgt ctataatctc aactacatgg ttggtaaaac cttgccgtga 240  
aacaattatc tgggctactg ttaattacat atttttgagg cta 283

<210> 37404

<211> 106

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-H11

<400> 37404

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcca cgcgtacgcc cacgcgttgg 60

gggacgcgtg cgaggacgcg tattccgttg cggagaccga ttcggt 106

<210> 37405

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-034-Q1-K1-H12

<400> 37405

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gcagaggctg ccctcacctg ctactgagcc gttacagagg tcgtggacaa gggagcagag 120

ccctagggcc gctggcttcg acttcttctt gagcaatagg agcaatgact cgccacctgt 180

ctacaggaag gaacccgatg acgcggcatc gcagtccgag tctgacgcga agtctgcaga 240

cgggtgaggat gatggcatcg cctacacgct gcaccagaga gttcttgagc tagaggacga 300

gctcaatgcg acaaaccaga aactacaaga tgacagcag aagcttgagg ttctggagga 360

aaagagcttg angtgccatt gcgattataa agagaatgga aactgagctc agcgaactac 420

agaagtttc 429

<210> 37406

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-H2

<400> 37406

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 accttcattg gcaactccac gtccatccag gagatgttcc gccgtgtgag cgagcagttc 120  
 actgctatgt tcaggaggaa ggctttcttg cattgggtaca ctgggtgaggg catggatgag 180  
 atggagttca ccgaagctga gagcaacatg aacgatctgg tgtccgagta ccagcagtac 240  
 caggatgcca ctgctgatga ggaggcggaa tacgaggacg aggaggccat ccaagacgag 300  
 taagggtggt ttgggccctg ccacatttgt acccttggtt cctttcattc cggggcttgc 360  
 ctatggtttg cctgggtgat ttgctcaagt tatgccgtat gtagtagtac ttttcgtg 418

<210> 37407

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-H3

<400> 37407

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 tcagcttttg aggttgagga ttgggtccgc ccaaaaccaa gtattgggag cagacctact 120  
 tatgactgga atagtgttgg gagaataaac attgcagtag tccatagcat tcaggactct 180  
 ggttacttgg agttagctgg ctgtttcagg aatgggaagt ggctaaccga taacacagac 240  
 attgagaaaag tgcagacatt aaaaattggt cagcatgttc ggttccgtgc tggaatttca 300  
 gagcctagat ggggatggag agatgcgaac cctgattcta gaggcacatc cgctggtgta 360  
 catgctgatg gagaagt 377

<210> 37408

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-H4

<400> 37408

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 agagagagaa gagagagaga gagagaggag tgggagaccc gcgagaggct gccgtgtagg 120  
 gaccgtagac tcagcgactg cgaaggaggg ataaggggat ggccgggacg ggaccgatca 180

ggcaggactg ggagccggtc gttgtgcgga agaaggcacc caccgtcgcc gccagaagg 240  
atgagaaggc cgtcaacgcc gcgcgccgcg ccggtgcgga gatcgatacc atgaagaagt 300  
acaacgctgg tacgaacaag gcggcattca gcggtacatt cctcaacacc aagcgctctg 360  
acgacgacac cgaaaacctt ggccatgaac gagttc 396

<210> 37409  
<211> 202  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-H6

<400> 37409

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acgcctcggg agagggagaa gcttcgatgt tcgagaccag ccatgtcctt ggcgccctgc 120  
tggccttctc ggcgatgctg gcgtccggct gggaccgggtg tacgaccggc acaagcgcg 180  
cgcccggggtt cgtgcccgga aa 202

<210> 37410  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-H8

<400> 37410

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tagacgagtt gctcaacttg aatggaagat aattgagagt gatattcaga aaccattcac 120  
aacttcaggg ctagagtttg ttccttggc ggtgatccat ggtgaagact acatttgttt 180  
gggtttcctt ttcggaagga aatcaaaagt tgcttacata tcagatgttt cacggtttcc 240  
ccaagcaca gaatatgcaa tttcaaaatc tggaggaagg caacttgatt tgctcatctt 300  
ggattgccta tacaggacgg gttctcacia tgtgcacttg tggtgggacc agacactaga 360  
tgctgttagg aggaattgcc ccaaagagc acttgctatt gggatgacct acgagatgga 420  
tcatcacaag gacaa 435

<210> 37411  
 <211> 349  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-034-Q1-K1-H9  
  
 <400> 37411  
  
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 ccgtcgccgg cgaggctccg acgaccggg agcaccggat ggggactacc atcgtcgggg 180  
 tctgctacga gggcgggctc gtcctgggcg ccgattccag gaccagcact ggagtgtatg 240  
 tagccaaccg tgcttcatac aagattactc agctgacaga caatgtgtat gtctgtcgct 300  
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<210> 37412  
 <211> 310  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-035-Q1-K1-A1  
  
 <400> 37412  
  
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 gaccgaagct ctaccacttg ccagttagcc tgtccaggaa ctgcttggcc ggagatccaa 180  
 acaaacctct gtgttggggg tctccggggg tccttgcgct ggagggagggt ttcgatctcg 240  
 ctggccatgg tttggctgag aagcagcagc ggcagcatct tgatgccaaa tctctgagct 300  
 ttatgaagat 310

<210> 37413  
 <211> 300  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-035-Q1-K1-A10  
  
 <400> 37413  
  
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tagtggccgc tgtccgtatg cctagtata agcaccgccca caacctagac gctaaggtga 120  
tagacagcac aatggacagc agtgtatgct acatctacgt gcagagctac ctatattgcc 180  
aatgcgttgt ctgacggtga acagctcttt acctatacta catatgagct agtcatgctt 240  
acacaggtta ccagagactg catgccatgt actattggag agatacgtca attttagggt 300

<210> 37414  
<211> 342  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-A11

<400> 37414

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gccaaggcg aagaaggcgc ccaaggagaa gaaggcgctt aaggagaaga agctttccgc 180  
ggcgaagaag ccggcggcgc accctcccta cgctgagatg attgtagagg cgatcgctgc 240  
cctcaaggag aggaaggggt cgagctcggg gccatcagc aagtacgtcg aggggaagca 300  
tggcggcaag ctccccacca acttccgcaa gcagctcact gt 342

<210> 37415  
<211> 188  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-A12

<400> 37415

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cagaacattg ctacgcgaga cttatcgtc gccatgcctt ctaagggaca gggctggtac 120  
cctatcacca acgtgtggca caggggttaa cctgccatag atgaccacta tgcccatgga 180  
ccgaaggg 188

<210> 37416  
<211> 412  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-035-Q1-K1-A2

<400> 37416

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ccctttgctg ggcgacgggaa cccaccacac cgcccgccaa cctgaggttt tgtgggctca 120  
gcgctccgag aagattttct tgactatctc attgccagat gcgaaagatg ttgtgttaaa 180  
gaccgatcct aagggcctct ttaacttctc tgctgttgct catggggaac cttttagctt 240  
cactttggag ctttttgatt caatactgtc agagggaagt aaaacgaaga caaagatggg 300  
cctgcgaaac ataatctgct caatccagaa agaaaagaaa ggttggtgga agcgcttgct 360  
taagtcagag gaaaagcatn catacatcaa agttgactgg aacanatggg gc 412

<210> 37417  
<211> 433  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-035-Q1-K1-A3

<400> 37417

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atcatcagtt gaagagattg gagttgaagc tgaagcagtt tgcggaagtt gagaccttgc 180  
tcttgaagga atgtgagcaa gtagaaaggg ttagacacag gatttcagct gaacgcgtca 240  
ggatgaggtc agccctatta ggtcccaccg gaagcgggtct accagggggc agttgtagca 300  
ctatgccatc aaatccagca ggcatgagcc ccagaccagt cgggtgtgcca ggctacatgc 360  
cacagaccag catgccagcc acatatgcca acaacctgca ggggcatggg aatnctcaga 420  
tgccgttctt aca 433

<210> 37418  
<211> 388  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-A4

<400> 37418

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agaaagggtc caaccgaac aggaactccc tcaggggggtt tgaggtgatc gaccagatta 240

aggctgctct tgaggctgcc tgcccaggca cagtctcttg tgccgacatt gttgcccttg 300

ctgctcgtga ttccaccgcc ctggttggtg gaccatactg ggacgtgcca cttggccgga 360

gagactcggg cggtgcatgc attcaggg 388

<210> 37419

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-A5

<400> 37419

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cgaagctcgt ccacttccca gtgagcctgt ccaggaactg actggccgga catccaaacg 180

cacgtctgtg caggggtgct ccggagcacc ttgcgctcga cggaggttct cgtcttaatg 240

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tgaacatagc cactcacatg tg 322

<210> 37420

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-034-Q1-K1-H10

<400> 37420

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ggctgctgga ggagaccttc acgagtgagg cagaggcgga ggcgctaccg agcttgccct 180  
tcgggttcta cgacgccttc gtcttgaggg gaatccgcgt cgtccaggcc cttcagcccc 240  
gcacactcct ctgccacttc aacgtgccct tcagactact caactcgggc ggcttcctgc 300  
acggcgggcg aaccgnettc ctctgggatc tngtgccctn cgcgcnettc gccactgccc 360  
ggctacgcac caggggcttc accccttgag atgaacatct cctaccttga tgctgctttt 420  
gctgatga 428

<210> 37421  
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<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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tatgcaaaga ctaaccaaac tataatacta acacacacga ctaatgccat cacaagacc 180  
taaccttaca 190

<210> 37422  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-A7

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caagcatgtc aaaaccaatg tgattggaac aggctacaga ctattgggta cacaatatgc 180  
ttgtttttta catatatgcc tagaaacatc atgtggacgc cgtattatgc cgccttaacc 240  
aggcatgga gacgccttag gccctgttcg tttatcctga aattcctccc gagaatcggt 300  
ccaactgatc aaagcttata taaattagtg aagaaatccg acccagattc attccagaac 360  
gaccattccc ggggaaccga acatgcccat tcccggggaa ccgaacatgc cctaaact 418



<210> 37423  
 <211> 389  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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gagaagcttg cacacacgga atcagagggt gctgtggcca acatggctgc acatgaatct  180
aagattgagt tcgacaggct tcaagagaaa cttacatata cagagttggt ggttgctgaa  240
gccacaagg ctgtgcagga ggcaaaggct gagagttcgc atctgaagga gcggttactt  300
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gctgacgcca tgaagaaaat agacgagct                                     389
  
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<210> 37424  
 <211> 422  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-034-Q1-K1-F5  
  
 <400> 37424

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tcatggcagc gacgtcatcc ccatcaagga catcagcttc caggacatgt cggtaggcat  120
cagctacaag aagaagcaca tcttccagtg ctctacctt gaggggctg tcgtcaggcc  180
cgtgttcccg aaaccatgtg agaacctgga cgtctatgat gagcaagggc agcttgtgaa  240
gcgggcagtg gccctgaaca gcacagaact tgactacgat atatgagggt cacatatcat  300
accacagctt tgatagttgt agtggaatt ggtgctctct accctcagaa atcaattntc  360
tccgattgtc catggctntt tgggtctaga attgtagata gagaagagat tctcctcttg  420
at                                                                                   422
  
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 <211> 335  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-034-Q1-K1-F6  
  
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 ccaacagttc tagagcaaga gagaggaaga cacactcgag agttagcagg ctaataactt 120  
 gcatgagcag caggaatggc tgcgacgcgt tgtctctctt gctttctcct cgccgtgctt 180  
 ctggcaggag tggcctgtgt caccgacttt gacgaagcgg ctgctgccgg cttcgggctt 240  
 ggccacggcg cgcgtttcgc gcgcaagcat ggacttgctg ccgatgagat gccccagccg 300  
 gagccacaac ctataactaa accggagccc catat 335

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 <211> 373  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-034-Q1-K1-F7  
  
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 acccattatg atgggtatgaa tgagttgccg tatgtggcgt tatctttag tagtaactagccg 180  
 tctgtgaaca tgtgagaact atgttggtct agcctgttaa acgaaatgat ctgtactgtc 240  
 ttctataggg tcttggtaca caagagttgt acaacataag atctgtctgt gcagtccagg 300  
 gagcagcgtg tcgtactgc tgtaatgcc ggcaaacgat cctgtgatcc tgcgccaaag 360  
 tttgtttctt ggt 373

<210> 37427  
 <211> 202  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-034-Q1-K1-F9  
  
 <400> 37427

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 atagatatata aataatatat ttaaaaaaaa aaaattatat atataatata ttttaaatat 180  
 atatttttaa attaatTTta tt 202

<210> 37428  
 <211> 262  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-G1

<400> 37428

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 ctggcggcgc tgctgggtggc cgccgaactc gtcggcggcg cgcgggcgca gctcaaggag 180  
 gggttctacg actacttctg gccacatgcg gagaagatcg tcaaggacta cgtgaaagcg 240  
 cacatgcccc acgcgccccg cg 262

<210> 37429  
 <211> 321  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-G10

<400> 37429

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 tctttggccc ccggagccgg agcaagagcg ccgccaacag cccgctaccg gcgccgtgtc 120  
 atggcggggc caggagacaa ggtggactac gtcttcaagg tgggtgctgat cggcgactcg 180  
 gcggttgga agtcgcagat cctcgcgcgc ttgcgccgca acgagttcag cctcgactcc 240  
 aaggccacca tcggcgctga gttccagacc cgcacccctc tcatcgacca caggagcgtc 300  
 aaggcccaga tctgggacac c 321

<210> 37430  
 <211> 414

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-G11

<400> 37430

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cggccacggt ttgcctgtgg ctgcgctgga ccgcgcgcga actgacgctg gccagttgc   180
tcgtcaacct cgctaagaag gacctgacgg aggttaccca caaggtctac ttcgacatcg  240
agatcgacgg caagcccgcga ggccggattg tcatggggct ttttgggaag actgttcccta  300
agacggcaga gaacttccga gctctttgca caggagagaa aggggttggc aagagtggca  360
aagcccttca ctacaaggga agtaagttcc acagaatcat cccagcttc atgc         414
  
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<210> 37431  
 <211> 452  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-G12

<400> 37431

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acggagattg gaggacagaa gggcgcagca caggactaca gcgaggtggg aaggccagat  120
caagcaggag acaacaagag gatgtgataa atggtgatct ctgcgagcag tatccctccc  180
tcccagctga tatgtagagg aagattgctg atcatctgga tagaacttcg acgcctgcag  240
cactgcttgg tgaggattgc caaggaggaa gactagaaca gacaagagca gcgctaata  300
gtgacagagc atgatgccat ccagatggga caagataagg catgttatgg tgttctctgg  360
tttctcatcg agaatagctc tttctctttc gtcaagggtt tcaccaatgg cttgtaacaa  420
ctggatgtaa aacatttttg gtttttaatc ga                               452
  
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<210> 37432  
 <211> 54  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-G2

<400> 37432

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<210> 37433

<211> 110

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-G3

<400> 37433

ccaaaaaaaa aaaaaaaaaa aaaaaaacat aaaaaaaaaa atgaaacaaa aaaatgaaga 60

ggccagagaa aattataaaa aaaggaaaaa aataacatag agacagtgga 110

<210> 37434

<211> 408

<212> DNA

<213> Zea mays

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<400> 37434

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tgggcctggt gcggggcccc aagtacgacg gcgtgttctt gcacgacaag atcaagagcc 120

tgacgcacga cgtcaggggtg gcggacacgg tgaccaacgt catcgtgccg gcgttcgacg 180

tcaagtacct gcagcccatc atcttctcga cgtacgaggg caagaccgac gccctcaaga 240

acgcgcacct ctccgacatc tgcacgacga cgtcggcggc gccacctac ttcccggcgc 300

acttcttcaa gaccgaagcc accgacggcc ggcccccccg cgagtaccac ctctgtggacg 360

gcggcgctgc gggcaaacac cccaccatgg tcgccatgtc catgtctca 408

<210> 37435

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-G5

<400> 37435

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aagttgctcc atgaggcagc gggtcacgtg gtgacgggtg agctcaagac cggcgaagtg 120  
taccgggggt ccatgggtcga gtgcgaagat aactggaatt gccagctcga gaacattacc 180  
ttcaccgtca aggatgggaa ggtttcgcag ctggagcacg tcttcatcag aggaagcaga 240  
gtgagattta tgattatacc tgatatgctc aagaacgctt ccatgttcaa gcgcttggaa 300  
gcgagaatta agggcaaagg atcagctatt ggagttgggc gtggacgtgc aagtgcaatg 360  
cgtgctcggg ctgcttctgg tcgtggtggt ggtccttggt gggccatggc aacgcgcctt 420  
ctgtgaggag gtaggattt 439

<210> 37436  
<211> 435  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-034-Q1-K1-G6  
<400> 37436

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gttatcaagt tcaatccaag caaccccgat ctcttcttat ctggtgggtc caagggttcc 120  
cttaaactct gggatattcg atgtggtctg gtaacaaaag aatttcagag aagccttggg 180  
accatccttg acattgactt cagtgtgat ggaagacaat ttatctcttc aactgacaca 240  
accagaagca atattagtga gaacactata attgtttggg atgtcctgcg acaagttcct 300  
ttatctaacc aggtttatac cgaagcattc acatgcccggt gtgtaaggta ccaccacgt 360  
gaagcatcat ttgttgacac gtccaatggg aactacattg ctatgttttc agcaaggcca 420  
ccctttaagc tgaac 435

<210> 37437  
<211> 418  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-034-Q1-K1-G7  
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ctgacacacc cagtgaagac tgactcgtcg ttctggacaa tagaagacgg tgagatgcat 120

ataacactgc aaaaaaagag agaaggggaa aacatgggtca tctccaatac aagggcaagg 180  
gattttggat ccatatgctg cagatcaaga gcaaaagcgg cttatgctcc aaaggtttca 240  
ggaagagaac cctgggttcg acttttcaca ggctcagttc agtggaacct ggctgaccc 300  
aagaaccttc atgggagggg tacgctccga gtgaagcacc ctacctgcct atgtacgttt 360  
ctactatata ctcggcatct tgatagatgc agcaggcgtg cttattatgg ctgaaaaat 418

<210> 37438

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-F3

<400> 37438

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ttgcgaagca cgaagagacc agtaaagtcg agaaagacag tgttctcaga gtaacacggg 180  
aaggaaagga acggaggaaa cgttggggccc aacgaagaac atcctctaaa ccagataaga 240  
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atactatgcc tggcatgctc ccactagtg taattgaaat tctagcagct cgtgagaagc 360  
aaaccttcgc atcagattcc gaggaagaaa atgtaaagca gaatgtccag aggagaaaga 420  
agagaatgga aactg 435

<210> 37439

<211> 314

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-034-Q1-K1-G8

<400> 37439

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ggatcatcaa aacctgcatg aatgaccaa aggagaaatt gtggtccatg ttgcaaaagc 120  
ttaatgttac catgaaggct gatgagaagg agttgattgg caaagctttg atgaagcgtg 180

ttatgcaaac gtggetacca gccagcactg cactttcttga gatgatgata ttccacctta 240  
 cttacnccgc aaaggetcaa aagtatcgtg tggagaactt gtatgaggga ccccttgatg 300  
 atggttatgc aact 314

<210> 37440  
 <211> 225  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-G9

<400> 37440

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 ccaaggctgg atccaatcaa tcaacaagtt agatttgaat ggcggccaat gttccaggaa 180  
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<210> 37441  
 <211> 426  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-034-Q1-K1-H1

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 tcagtgatgc ataaactacg accgcagcct gcctgggacg gtacctgcac tgcagcagct 180  
 gcagctggcc tcctctggga gttgagctcg cggcctgagc tcatctcatt tgggttggaa 240  
 aagcaagccg aagcgggtgga atgctcgtaa gacaacttgc tggatgctct cactgccagg 300  
 cggcttcgtc tgggcccagc gataactcgg aaacagagac ataataagaa ctgcatatag 360  
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 tcattc 426

<210> 37442  
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<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 tccgctcagc gcctcggcgc cgggggggctc tgtcgcgcca ccgacaacgg cgggtctcggc 240  
 gccgcaggcg tctgcacagc cgccgacaac agtcgcgcgcg tctgggcctc aggcctcggc 300  
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 <211> 446  
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 <213> Zea mays  
  
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 ggctcgcct gggccacgga cgaccactcc ctccacaacg ctttcagcac ctacggcgag 180  
 gtctcagat ccaagatcat cctcgatcgg gagacgcaga ggtcccgcgg cttcggcttc 240  
 gtcaccttct ccacggagga ggcgatgcgg aacgccatcg agggcatgaa cggcaaggag 300  
 ctggacggcc gcaacatcac cgtcaacgag gccagtcctc gcggcgggcg tggaggcggc 360  
 ggcgcgggcg ggtacggtgg tggccgtgga ggcgggcggt acggcggtgg cgggcgccgt 420  
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<210> 37444  
 <211> 447  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-034-Q1-K1-E12

<400> 37444

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aatggtacct tgctttctcag gccacaacag gaagcactgg atgggatgac gatgatgctt 180

ttgttgctg gaaggacagt cctgaaaact acaaggggca tatccaaaag cttagggctc 240

aaaaagtgtc tcattcgctc tctgatcttg ctgactccag ttcagatctg caagcattct 300

cgcaggggtct ttctacgcta ttagataaga tggatccctc tcagagagcg aagtttggtc 360

aggaagtcaa gaaagtcctt gattgatgat accaacacat ccaacacaat gtgtgcatgt 420

cacatctttt tggcttagta catacat 447

<210> 37445

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-034-Q1-K1-E2

<400> 37445

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ttggcccccc ttttccacag ccccgctcgt tgtctgtcag caggggtacct cnnccagagc 180

tcttcatnnc tccatttcnn cacggctcag ggtgaatcca actggagttc catttcnnca 240

cgctgnngcc tctattggcg ttcgtttctc ttccaccaga aaaggatgcn naccgccaga 300

aattgggagt cccccagaa cctggattga ccaagctctt gattggggcc tcgccggaag 360

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gacantcaat gg 432

<210> 37446

<211> 439

<212> DNA

<213> Zea mays

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<400> 37446

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ctctctgaaa aaaaaatcag ttgcgtaatc tgtccaatgt tgcatttgag ctattgcgct 180  
agttaatcct tttatttttcg gtatgacttg cagtgcctct agagatggag attctatgct 240  
aagggttttag gagctgcatg gtggatggta cattgtgctt tctgcgccgt gcttcctgaa 300  
agtctatctg aagttagttt aaagtatggg ttatgcaagt gttcccgata tttcccacga 360  
tggattcgag ccttgtgctg aacttgtgct agcctagcct gttataagat ctatggtaac 420  
gatgactgca atttatcta 439

<210> 37447  
<211> 346  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-034-Q1-K1-E5  
  
<400> 37447

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atcaagcccc agactgaccg ctgggtgttc cccgagacca aactggcat cattgtcctt 180  
gctgagggtc gcctgatgaa ccttgggtgt gctactggcc atcctagctt tgtcatgtcc 240  
tgctcattca ctaaccaggt cattgccc aa cttgaactgt ggaaggagaa gagctctggc 300  
aagtatgaga agaaggtgta tgtgctcccc aagcaccttg atgaga 346

<210> 37448  
<211> 444  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-034-Q1-K1-E6  
  
<400> 37448

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cagctcaaag aaatctggca agggtaagaa gccaggcaag ggtggcaatc gatttttgaa 180  
gagcattggc cttggtttca agactcccag ggaagcaatt gaagggacct acattgacaa 240  
gaaatgtcca ttactggaa ccgtttctat cagaggcaga attattgctg gaacatgcca 300  
cagtgctaag atgaacagaa ccatcattgt tcgcaggaac tatctccact ttgttaagaa 360  
ataccagagg tatgaaaaga ggcaactcaa cattccagct cacatcntcc catgcttncg 420  
tgtgaaggag gcgaccatgt catc 444

<210> 37449  
<211> 455  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-E7

<400> 37449

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cgccccactc ggcgccatac ctcccaaccc taaccccagc cagccccacc cgcgcgccga 180  
cgggtccaag tccaagccgc gggcggcagc ctctcgccg gcggccggat acgtgacgtt 240  
ccgcccggcg tccttggggc cgcgcgaggc ccgcgcgctc cgggaccgcc tcgcggggga 300  
gtcaccag gtgcgcgccc tcctctcccg catcgacacc tggcagcagc agggcccgcc 360  
gcccgcgggg ctccgcggcg aggtgcggaa gcggtgcggg cagatcctta ccaggctgcg 420  
caaggacaaa gcgagcgtgt ggttcaacgg cgccg 455

<210> 37450  
<211> 372  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-E8

<400> 37450

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gcttttact tccactgcat cagcaggtgg cttagactc gccagtgtg cccattagat 120  
aacagggagt gggagtcca gaaatatggc cactagttcc tgggcaccgt catgtggtgt 180

tgggactttg ctgccactca agtgtttttg tctgccaaac agtcccatct cttactgctt 240  
 tcgatgcttg catctatcac ccgtaatta taactagcta gcagtacgta cacctgggac 300  
 tgtatttggga ctatccattg agaggatagt agggccattt tatcaatggg atgtggatct 360  
 tcataagtga gc 372

<210> 37451

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-E9

<400> 37451

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 ggcttggtta catgcaagaa atggacaagg agctggacac ccacagggcg gagcatggtc 180  
 caaagcctcg gcgagttccc gaggagggcg gcaatgatga cgacgaagat gcagatgaca 240  
 tggctgtgga agacgagctg atggatgaag ttttgggcat caacgatgga atcaatgagg 300  
 acccatccaa gccgtccgaa gaagctacta ctgaaggta gccagcaccg gaggaagcac 360  
 aataggattc tttgttcaca caagtaagc gtaccattcc ggcattccgt atgcttagtt 420  
 gccgtcttgt tgggtgctgc ctgtg 445

<210> 37452

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-F1

<400> 37452

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 ctgctcctcc tcaccccact cccccgcagg agcggcggcg gcggcggcga ggtcgtaccc 120  
 cacatcggcg agcggcggcg gcaccgccgg agggcaaaggc aagatgttcg ggcgcgcgcc 180  
 gaagaagagc gacaacacca agtactacga gatcctcggg gtgcccgaagt cggcgtccca 240  
 ggacgatctc aagaaggcct accgcaaggc tgctatcaag aaccaccccg acaagggcgg 300

tgaccccgag aagttcaagg agctcgaca agcctatgag gttttgagtg atccagagaa 360  
acgtgagatt tatgatcagt atgggtga 387

<210> 37453  
<211> 411  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-F10

<400> 37453

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tcgaagaagt ttgttatggc caagaaccct cctgtttcta aaactaacac ccctcttcac 180  
gaatctcctg atgcacttaa aacaagtggc actgaaatgg attatgaggc tgctagaaga 240  
tttgattcag tttcttctaa tatgggcaca ctgcagtcta aagtgcagtt ttgtcctgat 300  
ggtgacgatg atgaagaaat tgttttcaag ccaacagctt ccgaaaagtt tccgaaagct 360  
ccttcagatc tgttgggttaa tggatacact catcctgtac ctatgtctac t 411

<210> 37454  
<211> 387  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-F11

<400> 37454

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ccagggtgtc aacgaattca attcgcgtaa accagatgag ctgaatatat tcaagggcat 120  
ttcaggggaac catctgttta ttggcatcat agctataaca gttgtactcc aggcgcttat 180  
agttgagttc cttggcaagt ttgcctcaac ggtaaggcta agttggcagc tgtggttggg 240  
atctataggt cttgctttct tcggctggcc gctggcattc gtggggaagc ttattcctgt 300  
tcctaaacgt ccattgggag aattctttgc atgctgctgt atctgcaaag ggagcaaaca 360  
agcccctgac gacgcaacct ctaatga 387

<210> 37455

<211> 363  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-034-Q1-K1-F2  
  
 <400> 37455  
  
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 aggaactatg ctccaaaatc aaggtgggtg atagatgtga agttgagcct ggtgccaaga 120  
 ggggcactgt aaaatttgtt ggtagagctg aagcccttgg acgtggattc tgggttggag 180  
 tgcaatatga tgagccactt gggaagcatg acggcatggt gaaaggcatt cgcttctttg 240  
 agtgccctca aagtcatggg gcaattgtga agccagagaa aagtaaagtt ggcgactttc 300  
 cggagagaga ccattttgaa gacgaggacg atgacgagat ttgagtgcgt gtgcgttttg 360  
 aaa 363

<210> 37456  
 <211> 365  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-034-Q1-K1-E1  
  
 <400> 37456  
  
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 ggaagccgcg gtagcactgg tagcggcagc agtaaggggg agatgtcgtc ggcgttcagc 120  
 ggcgatgaga ccgccccctt cttcggttcc cttgggcgct ccgctgcgct cgtcttctca 180  
 tgcattgggg cggcgtacgg gacagccaag agtggcgctg gcgtggcgct catgggtgtc 240  
 atgcgcccag agctcgtcat gaagtccatc gtgcccgtgg tcatggctgg tgtgctcggg 300  
 atctacggcc tcatcatcgc cgtcatcatc agcactggga tcaaccccaa ggccaagcca 360  
 tacta 365

<210> 37457  
 <211> 345  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-034-Q1-K1-C4

<400> 37457

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gagatctgct ctcgctcttc cgggggcttg cggcggaggt ctggacgtac atccgggtcg 120

tcgagcgctc cgggctcgag ggctcggatg agtcggagta ctctcggat gaggatgact 180

cggacggcgg cagcaaggac gaggacgacg acgacgaaag cggtgggcggc ggtgacggtg 240

acggcagcgg caggggcggc agcggcggca gcaaggatgg tgacggcggc tgcagcaggg 300

gcggcaacgg cggtggtggc agcagcagag gtagcaccag gggcg 345

<210> 37458

<211> 70

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-C6

<400> 37458

acgcccacgc gtccgaaaaa aaaaataaaa aaaaaaaaaa aaaaaaaaaa aaactagttc 60

tagatcgcca 70

<210> 37459

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-C8

<400> 37459

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taccgcaaga tgaaggagag gcttgctggc gtctctgagg agaccaccac ggggtgtcaag 120

aggctctacc agatgcagga gaccggcgcc ctctcttcc ctgccattaa cgtcaacgat 180

tccgtcacca agagcaagtt tgacaacctg tatggttgcc gccactcgct ccctgatggc 240

ctgatgaggg ccaactgacgt tatgatcgcc ggtaagggtg ctgtggctctg cggatacggc 300

gatgtcggca aggggtgtgc tgctggcctt aagcaggctg gtgcccgtgt cattgtgacc 360

gagatcgacc cca 373

<210> 37460



<211> 451  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-C9

<400> 37460

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gcagcggcag tggtgaggcc aaggccaccg acccacctct ctcatagcac tagcagcaat 120  
ggaggtggag atcctcgagt cctgcatggt gaaaccacgc gacgacatag ggacgccgcc 180  
gccgcccatt cactgtgtct ggctctccaa cctcgatcta ctggtggcca ggagccacac 240  
gccacaccga tacgtgtacc ggcccagccc tgaccgggac ttcttctcgc cgggcgtcct 300  
cagtgtgcc ctgtccaagg cgctcgtccg cttctacccc ctgcgcggcc ggctcgcgca 360  
ggacggcgcc ggccgcccgc agatccactg caccggagaa ggcgcgtcc tcgtcaccgc 420  
gcgcgccgac gctacccttc aggacatccc c 451

<210> 37461  
<211> 293  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-D1

<400> 37461

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tatctgccgt gaattgtcac actgcggagg cttatagaa agccacttac gcaattaaag 120  
attcaggaaa tgacatcgaa gggttagcag agcgcagatg gcgtgaatct gtaccactgc 180  
agccaaacac ttcacagcag atttttagc tattgttggt ggtagagggt ttccgcttct 240  
cttgtgtaac tgaaagctcg tctttatttc aatcactata cttttcttga cag 293

<210> 37462  
<211> 411  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-D10

<400> 37462

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 ctttttttca gottcccgtg aagacgatga tgcacccgc atatatgcgt gagcgaaact 120  
 ctcccccaatt cttcccagagc gcgcgcaatc cagtagcttc cgacgtcttt tttccagccg 180  
 cgcacgcagt tttgttcgag gaaaggaggg caagagcggg agacacacca tcgtcgttgg 240  
 aggagccagc caaggcggtg gagtgtgaga tgatacatte gggatatgaa ccagtcgggc 300  
 gcgacgatct aaacctatcg aggcaagcac gtcgggataa caacgtcggc ttgcagcgtc 360  
 cttcggcgag ggccattcat cctttggacc tccggcaaat gggctctatt t 411

<210> 37463  
 <211> 372  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-D11

<400> 37463  
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 acggcgcgcc gcagtattgc tgcacggggc agttcgggag ccccagcag tgcaagcca 120  
 cggcctactc gcgcctcttc aagtcggcgt gcccgaaggc ttactcctac gcctacgacg 180  
 acccgacgtc catcctcacc tgctccgccg gcgcctccta cgtcgtcacc ttctgcccgc 240  
 accgccgctg aacttttatt tttttaaggt cttcggcgcg gtgttggttag ttatcctctg 300  
 cctgcgtttg cgttttgatg ttctggcgtg cgttcgtttc acttgctcc gtcacgcgtc 360  
 ttcggaatct cc 372

<210> 37464  
 <211> 415  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-D12

<400> 37464  
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 atcacccag ccaaagctga cgctgatcg tcacgtatt attcactcac atgtgatgct 120  
 gcggctgcga ctctaaacc ttaaacttag aaatagctgg ggattgggtt tgcattgcat 180

cgtgttcttg ccggtctagc aagtgactat aagaataatg gaataaacga tgacccagtg 240  
 tgtgtatgat ttccattctg aagaacaaca catcccttgc aggattgttg ttcagtagat 300  
 ttactttgta ccgcggcttt ggagttcccc aaaggacttt gttcaagaac ttcttctctc 360  
 acaggaaata acatgagtgc agtccgtgct tttatcaaaa aaaaaaaaag gaaaa 415

<210> 37465  
 <211> 320  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-D2

<400> 37465

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 cgtacgggac caccaagctg cacatccac catccgccgc ccgccgacc acgttctctg 120  
 cattcgtggc cgtctctctc ctctgctctg cctcctatct catcggcgtc tggcagcacg 180  
 gcggcttcgc cactccatcc gacaaaccgc acgacgtctc caccgctacg gccgtcgctt 240  
 gcaccaacgt cgccgtcgtc ccgaagagga ggacccggtc cggcgccagc ttcccgggcc 300  
 tcgacttctc cgcgcgccac 320

<210> 37466  
 <211> 419  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-034-Q1-K1-D3

<400> 37466

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 gacattatga agctgatgat gagcgactac aaggtggaga tggatgaacga tgggatgcag 120  
 gaattcttcg tcgaattcaa ggggccggcc gaaagtatct accaaggcgg tgtctggaag 180  
 gttagggtag aactgcctga tgcatatcct tacaaatccc cgtccatcgg cttcatcaac 240  
 aagatttatc accctaattg tgatgagatg tctggctctg tatgtttaga tgcataaac 300  
 caaacatgga gcccaatggt tgatctagta aatgtttttg aagtattcct ttcacagctg 360  
 ttactatatc caaatccttc tgatccatta aatggggagg ctgcancact tatgatgcg 419

<210> 37467  
<211> 54  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-D4

<400> 37467

agtacatgcc caaacgccta gttgtccata acgtactgca cggtaagca cctc 54

<210> 37468  
<211> 398  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-D5

<400> 37468

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aacaagttcc attctgtcat atcgtttaag cccacaatgg taacgatact gtcccctgag 120  
gttgagaaaa aagaagcaga agctggggg aagatgggtg acctagattc ttatgagatt 180  
gaaggcgggtg agacaaaagc agagatattg caaacctag ctgagttcca gttttcttgt 240  
gtcatgtaca atgggtgcct agagaatgca tgcagtgagc ttggagcccg tatgtctgcc 300  
atggacagct ctacgagaaa tgctggcgat atgcttgatc gtctcacgct tacttacaac 360  
aggacacgcc aagcattcat caccacagag cttactga 398

<210> 37469  
<211> 414  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-D7

<400> 37469

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cgagggcgcg gtggactcca aggacctca gcagcagagc aaggcgctcg acaagctcac 180  
tgatcatgtc gaggaccggc agctcgattc atcccggtc caatccgcca tggcagcact 240

tgcttcatcc aaggaggctg actggaacgc gatgaggctg agggagaaaag aattggctgc 300  
 tgtgaagatc aacctgccg atgtcgaaat tatcgctact gagcttgagc tggacaagaa 360  
 gatcgcgagg agaacgctcc gtgagcaciaa gggatgatgcc gtggctgcgg ttcg 414

<210> 37470

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-D8

<400> 37470

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 aatgcataat ggacggggag cagccgacga acgaggtggt ggcaaggcgt gctggcatca 120  
 cgattgaaaa gctggcgaaa ctgagagcga aaacaaggaa agtacggtcc atgcaggatc 180  
 gagtctggtc agacgacggt gtgacatacc aggagatcac cgaggacccc aacattgaag 240  
 gtcctgaggt gagcgtggac aggctgatga tgcggcagca ggtgctgcgc ttcctggcgg 300  
 ggatcctgag cccccgggag aaggagatca tcgagcaccg gttcggcatc cacgacggcc 360  
 agcccaagac cctgcatgtc atcggcgaca tgtaagggtc gtccaaagag 410

<210> 37471

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-D9

<400> 37471

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 ctgcactgca ccaatggccg ccgtcgaggt ccagggtccc actgccgctc ccgtcgagga 180  
 ggctgctgct gctgctgcag cgggagtgga ggctgcccag ctggccgccc tcgagacccc 240  
 gaacgaggag accgctgctc cggcggcgga gaccgaggtc gtcgccgcta aggagccggt 300  
 gtcggccgaa gccgagactg agtccaagga ggtcgaggtc gaggccgagg ccgtagctga 360  
 ggctgagccg accgaggcag agcccaagga agcagagccc gaggccgtcg cgccggcagc 420

agagacggag gctgctgctg ccccggt

447

<210> 37472

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-C3

<400> 37472

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gcctgaatcg aacagctgga tcatcaagta ctggtgatgc taatgtggat cctactgtat 120  
tgccacttga acctaaaggt ggccaactgc ctttgttcag cagtgggtgat tggatgtcag 180  
acattgattc tggatatgag gcagcagaaa ttgcagcttc tactcaaacc tcttcgggtg 240  
tcacaccata tctgtgttct gctggaagtg tttttggcag ttcattggatg ctggttaatc 300  
atgaccaatc agatggacca tcaacttctg ctggtacatc atcgcagcag aaagtgttac 360  
ctcaaagcga gcatcagcgg aattaaaccc gcttcagatc tgcaggaaat tccagagtca 420  
aaaacctttt tgctgac 437

<210> 37473

<211> 140

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-A9

<400> 37473

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gccagaacta gttagcagcc taccatggcg aaagtaacat actcgaacca atcttgga 120  
gatcctgtca ttcttgtgcc 140

<210> 37474

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-B1

<400> 37474

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 gcacctggcg ctgaaggcac tgggcaggcc caacgcctg gacgggacca tcccagaggt 120  
 gtcgccggcg ctgcgcgagg agttcgtgat tgcgtccaag gacgacgagg tcgtggacgc 180  
 ctgagcgagc atccacgcgc cagcatgcaa gcagcgtctt atctggggcg gcgccatcac 240  
 ggggtttctt cttttaatct gggactttgt tgctgttgga cgaatgaatt cccttcgata 300  
 ggtagcttt aatctgtctc ggtagtgtgt cgtgttcgtg tagcaccatg ccacacacca 360  
 gccgtgtgct ctgtcacgtg ggggccactc gt 392

<210> 37475  
 <211> 322  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-034-Q1-K1-B10  
 <400> 37475

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 ccggtcggcg gccacaaagc tgcacatccc accatccgcc gcccgccgac ccacgttcct 120  
 gccattcgtg gccgtcctcc tctctgtctc tgctctctat ctcatcgggc tctggcagca 180  
 cggcggttcc gccactccat ccgacaaacc cgcggtcgtc tccaccgcta ctgccgtcgc 240  
 ctgcaccaac gtgcgcgtcg tcccgaagag gaggaccggg ttccggcgcca gtcctcgtc 300  
 cctcgacttc tccgcgcgcc ac 322

<210> 37476  
 <211> 344  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-034-Q1-K1-B11  
 <400> 37476

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 gtggctttga tattaatttc ttctgattgc ctcttttcac tataatatat tggagaagaa 180  
 atgttctgga tgggtggaaa aaaggattat tggccaatag aatttttggg cttttcggtt 240

gaagatccaa ttggacattt gggtttcacc ccagaaattt aatcctgggt tataacttaac 300  
 cacttgggca ttttcacttt ggttattcat tcgatgtaac atgc 344  
 /

<210> 37477  
 <211> 284  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-B12

<400> 37477

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 ctctccggcc cgggtgagga tctcagtaag ctgcctaagt gtaactacga tgattgcaac 120  
 actggctatg acctcggcga gtacagatag tttatcttgt acatacaggc catctttaat 180  
 gacccattta ggatgttcaa caacatgctt gagatgtgcg attgctacac gcgatccaac 240  
 gagcctgacc acagtaacaa tatgtacaac gccgttaaaa tcta 284

<210> 37478  
 <211> 436  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-B2

<400> 37478

gcgaaatcgg gaacgcgcac caactgttcg tcgttggtt cgacaccgac aggctcaagg 60  
 gctccacgct cgtcaccaat ggcgtgataa cggccgggtc tgacgagtgg gcgatctacg 120  
 gcggtaccgg ggtgtttgcc atggcgaggg gcgtcataag gagaaggat ctgcccgaca 180  
 gggccggcgg gaacactgat gagtcaaca tggatgtctt ctgccggccg tttggctcac 240  
 agtcacagct gcaagataag atgcaggtgc aggggcaggg gcagggctct agcgtcacca 300  
 agattggact atggggtgga ccgggagggg cggcacagga catcacggga gagcggccac 360  
 cgcagcgtct tcacagcgtc accgttcgtg ctggcggtgc cggcgacttc atcgagttca 420  
 cctatactga cagcgc 436

<210> 37479  
 <211> 359



<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-034-Q1-K1-B3  
  
 <400> 37479  
  
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 ggggaaattc cagcgcagtt cggcgagctg gataagcttg gcagcctcga catctcgtac 120  
 aaccagctct ctggcagcct tgcgcccctc gcgaggctcg agaacctcgt catgctcaac 180  
 atctcgtaca acacgtttctc tggtgacctc ccagacacgc ccttcttcca gaagcttccg 240  
 ctcagcgaca tcgcgggcaa ccacctgctc gtcgtgggcg ccggcggcga cgaagcctcc 300  
 cggcacgcgg ccgtttcggc gctgaagctg gccatgacga tccttgctgt ggtgagcgc 359

<210> 37480  
 <211> 384  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-034-Q1-K1-B5  
  
 <400> 37480  
  
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 atgaattcat cgtaagaag aacattcttt cgatattctc ttcgtgaagg tgatgatcca 120  
 cagccacggc ctgccagtga cttgaactga tagcgaacca ccactttacg gaaaacagaa 180  
 caaatcggat gatgtgagag aaaggtggta gtgaagtcca gtagtggcag agctacttcg 240  
 tgcacgtaga tctcttttgc atttctctgg tccagggatt gacttcgtac tcacagtta 300  
 cttcacacag aaggtttatg tagccatcct gtgataacat ctactttctt tttgatccaa 360  
 taaattgggt attcagcttc cgtg 384

<210> 37481  
 <211> 212  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-034-Q1-K1-B6  
  
 <400> 37481  
  
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cttccaagggttccccaacctgtgaaaaatgc aaccgattgc agtccctgcc attccttggg 120  
atgagcttaa ggaggtgact aaaggttttg gtgatgaaac cttgattgggt gaaggctcct 180  
ttggtagagt atacttaggt gttctaagaa at 212

<210> 37482  
<211> 295  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-034-Q1-K1-B7  
<400> 37482

tccacgcgtt cgaccacgcg tccgtccacg cgtccgaaaa aaaaaaaaaa aaagagaaag 60  
gaaataaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa tatagaaaaa 120  
aaaaaaaaaa ttaaaaaaat aaaaaaaaaa aataagggtta aaaaaaaaaa aaaaaataaa 180  
gggggggggtc tttaaagaga tccaggtttt ttaaaatgggt tttcctatatt caaaaatttt 240  
ttattgggga ccataatgca aaataacgtg ctcgttttta aaaacagtgg gtatt 295

<210> 37483  
<211> 419  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-034-Q1-K1-B8  
<400> 37483

cgttcttggga gaatcaacca aacagatatt gcaatgaacc tcgtaccga aatgaggcag 60  
cagaagatga tagtggctgg gaaactgtaa gccaaagtga ggagaatggg tcttgaatt 120  
caccggggcgg aagtgaaccg tctgtaaatg gcttctgtgg agaaaacgat gcttccgtaa 180  
gtggaaccga ctgggatgaa aactgtgaca atgatcaggc acacagtga atcagtgaag 240  
tttgttcaac agcagcaggc aggtctcgga aaaaagatc attcgccgga ctatggagat 300  
catcaaacac cgtggaccaa aagaagatgg gatccaatac actcaacggg aggtcatcaa 360  
atgccaggat gtcaaagcc accgaatctg ctgacctgaa gaatagcgaa gtgtgtgac 419

<210> 37484  
<211> 449

<212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-034-Q1-K1-B9

<400> 37484  
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 ctcttcggca ccggcatgta cgccgccccg ctctccgtca tgaaaatggg gatccagaca 180  
 aagagcgtgg agtacatgcc cctgttcttg tcgctggctt ccctcgtgaa tggcatctgc 240  
 tggactgctt acgcgtcat ccgcttcgac ctctacatta ctatcccaa cgggctgggc 300  
 gtgctgttcg cgggtggcga gctggtgctg tacgccatct actacaagtc caccaggag 360  
 atcatcgagg cgcgcaagcg caaggccgac cagatcgcca tgaccgngt ggtcgtcgac 420  
 ggcggaaga ccaacaacca agccggcgc 449

<210> 37485  
 <211> 398  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-034-Q1-K1-C1

<400> 37485  
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 ccgtcgtctc tcttcggcga ggcccgcgtg acgatgcgca agacggcggc gaaggcaaag 180  
 ccggcgggca gctccggcag ccggtggtac ggccccgacc gcgtgctcta cctgggcccc 240  
 ctgtccggcg cggccccgag ctacctgacg ggcgagttcc cgggcgacta cggctgggac 300  
 accgcggggc tgtcggcgga ccgggagacg ttcgccaaga accgggagct ggaggtcatc 360  
 cactcccgct tggccatgct gggcgcgctt ggctgcgt 398

<210> 37486  
 <211> 423  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-C10

<400> 37486

cccacgcgtc cgcggaacgcg tgggcggacg cgtgggggcgc cggcgccctcc atggggttgg 60  
gtcactgtc tctgcagct catgggtccg cggcgaaggg aaggcaagat gtacaccgcg 120  
aggaagaaga tccagaagga gaagggtctt gagccctccg agttcgagga ctccgttgcc 180  
caggctttct ttgatctgga gaacgggaac caggagctca agagcgacct caaggacctg 240  
tacatcaaca atgctatcca gatggatgtt accgggagta ggaaggctgt tgtcattcac 300  
gtcccatacc gcctgcgcaa ggccttcagg aagatccatg tcagactcgt caggagctt 360  
gagaagaaat tcagcggcaa ggatgtggta attgttgcta caccgaagat tgtgaggcca 420  
ccc 423

<210> 37487

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-C11

<400> 37487

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agaagtccaa atgcctgaaa ctttactgtg agtgttttgc tgctggagtc tattgttctg 120  
agccttgttc gtgtatcggc tgtatgaaca accagagtca tacggaaact gttctatcta 180  
cgcggaaca gattgaatct cgcaatccat tagcatttgc tctaaagta attcatacat 240  
ctgagcctgg tctggaacta agggacttct ccaataaaac tctgcttca gtcgtcaca 300  
aaaggggatg caattgcaag aagtcgtcat gtctaaaaaa atactgtgaa tgttttcagg 360  
gtggtgtggg atgctccata agttgcagat gcgagggtg taagaatgct tttggaaaac 420  
gggaaggggc tgccgtgtta agcat 445

<210> 37488

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-C12

<400> 37488

cccacgcgtc cgtgccttca gatgagctcc gtaaacgggt tgagcaagaa ggaatatcac 60  
ttgatcagcc tcttgttacc tcttgtggca ctgggtgtgac agcatgtgta ttagccttgg 120  
gccttcatcg acttggcaaa accgatgtcg caatttatga cggatcgtgg accgaatggg 180  
gogcccatcc tgacactcca gttgcaactg ctgttttagtc tcttcataat aggacgcccg 240  
tgctcttcat agaggacctc ttgattgtat ttgccccgtg ctgtgattct atggagggtg 300  
gttggatgct tggatgtaag gctggggaag cgaagccttt tggccttcac tgtaaaagct 360  
gcaacagaaa aactgtcaca tgcactgaat tataagataa ctccccttga tctct 415

<210> 37489

<211> 381

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-034-Q1-K1-C2

<400> 37489

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agcaagttca gcagggggcca gactaataaa tcagcttgat agcatccttg cagcgggtgcc 120  
ttggactttg gcgggttagaa gaagtttata attttatatg atgaaattat gtgcatcttc 180  
agttgttttt gctcactgc tctgtaagga catataaaat tggatattgt actttctaag 240  
gttctccttg gaatggtaga gttttacagg gaaccttcca tcatcagttg ctgacatagc 300  
tcgaactcga cgtttcttct tcgccagttg cggtcttgga taaactcgaa gctgacctat 360  
ncaaggtcga cgacggggccc t 381

<210> 37490

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-A8

<400> 37490

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ctgagccatc aaagctcggg gcggatggcg gggcggcggc agatcaagaa ggagtgggtg 120

caggcggcgg cggacgcggc gtcgtggtgc gtggcgctgt cgctggtggc gatgctggtg 180  
 gtgctgtgca cgctggggcg cggggaaggc ggcggcggcg cgccggtggt ggtggtgcgc 240  
 ggcgcggcgc tggcggcgcg gccgtgcgag gagatctacg tggtggtga aggcgagacg 300  
 ctgcacagca tcagcgacaa gtgcggcgac cctctcatcc tggagcggaa cccgcacgtg 360  
 cagcaccggc acgacgtctt ccccggaactc gtcacccgga tcacaccgtt caagcccagg 420  
 tagatcgatg gcgatccatc g 441

<210> 37491  
 <211> 440  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-033-Q1-K1-H3  
 <400> 37491

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 agaattctct caacctcatc ggcggcggcg aagagcgtgc ggatcggaga tggcgacaag 120  
 cgggtggagg aggagagcgg cggcgcgggc ctcttgagc cacaccacgg tgtacctgtg 180  
 gtcgcgctc gccgcagcag cactgacgct cgcccaggct aagaaggacc taacggagg 240  
 taccacaag gtctacttcg atgtcgagat tgacggcaag cccgcaggtc ggattgtcat 300  
 ggggcttttt gggaagactg ttctaagac agcagagaac ttccgagctc tttgcacagg 360  
 agagaaagga attggcaaga gtggcaaagc tctccactac aagggaagta cattccacag 420  
 aatcattccc agcttcatgc 440

<210> 37492  
 <211> 443  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-033-Q1-K1-H4  
 <400> 37492

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 cagcattctc ctctccgctc cgcgtagctc tcggtttcgg cgatgtcggg gcgcggcaag 120

ggcggcaagg ggctgggcaa gggcggcgcc aagcgccacc gcaagggtgct ggcgcacaac 180  
atccagggca tcacgaagcc ggcgatccgt aggctggcca ggaggggagg cgtcaagcgc 240  
atttctgggc tcatctacga ggagaccgc ggcgtgctca agatcttcct cgagaacgtc 300  
atccgcgacg ccgtcaccta caccgagcac gcccgccgca agaccgtcac cgccatggat 360  
gtcgtctacg cgctcaagcg ccaaggccgc acgctctacg gcttcggcgg ctaagccgnc 420  
tncccttctg atgctttgat gtg 443

<210> 37493

<211> 450

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-033-Q1-K1-H6

<400> 37493

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gagcccgaca gatcttcaat tccccattcc gccaccgat cgaccttcac gccagtctcg 120  
gtctcttccg aaggcgctgc gcgcggttgt ttgagaggag aggaggaaga tgagggagtg 180  
catctccgtc cacatcgggc aggccggcat ccaagtcggc aacgcgtgct gggaacttta 240  
ctgcctcgag caccgcatcc agcctgatgg ccaagtgcct ggagataaga ccgcgggaca 300  
tcacgatgat gccttcagca ccttcttcag ccagactggg gctgggaagc acgttccccg 360  
tgcaatcttc gttgatctag aaccactgt gatcgatgag gtgcgcactg gcacgtaccg 420  
ncagctcttt caccctgagc agtcatcag 450

<210> 37494

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-H7

<400> 37494

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ccccaatgat cagctatgag aagaaatgac acgtatcttt cacacgcaca taggagccat 120  
acgaagaacg tactaatgaa aagatcgatg aattatattg atatgatatg acgtgagtgt 180

tttgaaatgt ttggtagggt ctgtttatat ggatttttgt atgtaagact gcattgttct 240  
 tttgtatgag gtttcatatg acgaggcgat gtctagtcag cacggaccag actatgactg 300  
 gaggacctca cctattgac ctaagctat gtatgtaagt ggtggaaaag ctcataaaaa 360  
 gtacacaatg tttgctaacg tcatacaact gagccagggt aggggttcggc gtggagggtc 420  
 gtcaagggtc gtactc 437

<210> 37495  
 <211> 453  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-033-Q1-K1-H8

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 agcgtggtgc ctattgacga gatgatgccg gtggaggagg cggcggcgga tgactggtcg 180  
 gagtgcgcgt tctcgtgac ctgcgaggaa gactgcgccg acctcggcga cggcgagcta 240  
 ttcccgctct acagtgccgg cgacgaggag gaagatgagt acttgagca gctggtgttc 300  
 aaggagacca gtttctgctc ctntccgac tcagctgccg actgcgacgg cgatgaagaa 360  
 ggagacgaag aatactcttc gtcacotta aaggagtggg tccgtcaagc tcgcctcgcc 420  
 gncgtcaagt ggattcttga gacccgcccc tgc 453

<210> 37496  
 <211> 439  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-H9

<400> 37496  
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 gacaatgtca aggccaagat ccaggacaag gaagggatcc cgccggacca gcagcggctg 180



atctttgccg ggaagcagct ggaggatggc cgcacccttg cggactataa catccaaaag 240  
gagtctacgc ttcacctcgt gcttaggctc cgcgggtggca tcattgagcc ctcgctgcag 300  
gcgctcgcgc gcaagtacaa ccaggacaag atgatctgcc gcaaatgcta tgcacgactg 360  
caccctaggg ctgtcaactg ccgcaagaag aagtgtggtc acagcaacca gctgaaggcc 420  
aagaagaaga tcaagaact 439

<210> 37497  
<211> 341  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-A10

<400> 37497

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cttttctgag actctgacac ggatgttggc aagaccacca gcaccgtctt tggtgactgc 180  
tcaaactcct gaagtcggca tcttcattac agctcgcaac gtctcgggtg cacttgctgc 240  
caaactttct ggtaacaaaa acaagtgtgg aggaagatcg aatgttcggc aacggaacat 300  
tcaacctgtg aaaaggggct gtcgtccgga gtggcggggc c 341

<210> 37498  
<211> 342  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-034-Q1-K1-A11

<400> 37498

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cgctgcctg cctggggccg cagcaccgac tctgacagcg cccgtcctgc ttcctgtacc 120  
ggcaggcgag ggagtggact cagggagtgt gatggcggca atgccggcgc cgcttctgcc 180  
tctgcttctg ctggtggtgg ccgcggcgat gacgctctcc cccgccaccg nccgcattcc 240  
cggcgtgtat gtcggcggcg gcggcggcgg ctggcagagc gcgcacgcca cgcttctacg 300  
cggcagcgac gcttcgggca ccatgggcgg cgctgcggg ta 342

<210> 37499  
<211> 129  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-A12

<400> 37499

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cgcttctgcc tagctgtgac cgcaacaccg aactgacag agaccggaca gatttctggg 120  
cccataggc 129

<210> 37500  
<211> 292  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-A2

<400> 37500

cccacgcgtc cgcccacgcg tccgcccacg cgtccgccca cgcgtccgag atacggttga 60  
taaaataaaa ccacttcga tgaaaaagga atgatccgag tacagtacag agttcctaca 120  
ctccgggtat gaaaactctc ctcatgacaa gtacagtgtt caccgaagag cgaagtaccc 180  
ctctcactca atcataactg actttcttac agactactgg aacttaacac aaacacacag 240  
atagggacac ttatcaccac agatcgatcg atcgccacca aactttattc ta 292

<210> 37501  
<211> 331  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-A3

<400> 37501

tcgcacggcc tcaaggacgg ctggtacgac ggcgtcagca tcttctcgc cgtcttctc 60  
gtcgcgcgcg tgtccgcggt cagcaaccac ggccaggcca ggcgcttcga caggctcgcc 120  
accgagtcgc acaacatcgc cgtcgccgctc gtccggggcg gcaggaggca ggagctctcc 180  
atcttcgaag tcgtcgtggg cgacgtcgtg gtgctcaaca tcggcgacgc cgtgcccgcg 240

gacggcgtct tcatgcaggg ccacgcgctg caggtggacg agtccagcat gaccggcgag 300  
ccgcaccctg tcgacatcga cgccgagaag a 331

<210> 37502  
<211> 382  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-034-Q1-K1-A4

<400> 37502

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catggccttg gagtgcagaa tttcccagca tcatcatgca aatgatttta tcttacatat 120  
tgatactagt agtaaattatt tttggagtcg actattctgt cgctaattct ggtacttcac 180  
aactaaacca tatatatctc tgtcttgat ttcagaaaag tccacaagta tggaaagagc 240  
acaaccggcg agaggtggga cttggtagtc gacgaggaga catactacga ggcggagccc 300  
cattacggat gggccgatgt cgtcggagac tcgacgcagc tgctgtccat acagccccgt 360  
gagaggccac cncgcgtgtt cc 382

<210> 37503  
<211> 282  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-A5

<400> 37503

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tgtgtgctga aaaatctagc ttgcacggag cggtgatcat aaacgatatc gtgcatccct 120  
acctcgacat cgtccttgtc atggaactag acattggcat gctgacacat atcaatatgc 180  
actgcacaca tgactgtgtt gatcctgatt gggacaaaaa acatgtgccc gttcaaccag 240  
gaagtatcta ttatgcaggc actgcaagtg acccatccaa cc 282

<210> 37504  
<211> 434  
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-034-Q1-K1-A6

<400> 37504

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ggaccggctg gttctctcgg cttgcgtgaa aaagcgcagg gggagctagg cacgtggttt 120  
ccctcgtctt ctgccgcaga cgcttcccgt gatcagaatc caagaaatgg cgggtccagg 180  
tccagcgcgc accgcgcgga gcgttgctct cctgtgtttc ctggtttctt gcgctgcgct 240  
cgtggacagc cgtggcggag ccagccggcc gagccggcag gacctcgatg tcggcctcgg 300  
cggcgggggc gtcggcatcg gcatcggcat cggcggcggc agcccttcgt cgccttctcc 360  
gacgccgneg tcgtcgcagc cgcagccgtg cgacttcgag aacgagcggc tgtacagggc 420  
gtacctcgtg atcc 434

<210> 37505

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-A7

<400> 37505

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ggcaagtacg cggatgagct catcaagaat gctgcctaca tcggcacccc tggcaagggt 180  
atccttgctg ctgatgagtc aactggcacc attggcaagc gcctttccag catcaatgtc 240  
gagaacgtgg aggagaaccg gcgggctctc cgtgagctcc tgttctgctg ccctggtgcc 300  
ctccagtaca tcagcggtgt gatcctcttc gaggagaccc tctaccagaa gaccaaggat 360  
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<210> 37506

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-H2

<400> 37506

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gagcttagca caacatggct ccctcgccgc aaccgtcggc cccagggta tcgtcgtcgg 180

cgcggcatg tctgggatct cggcggcgaa gaggctgtcg gaggcggga taaccgacct 240

gctgattctg gaagcgacgg accacatcgg cgggcggatg cacaagacga acttcgccgg 300

catcaacgtc gagttaggcg ccaactgggt ggaaggcgtg aacggcggca agatgaaccc 360

catctggccc atcgtcaact ccacccttaa gctccgcaac ttccgctccg acttcgacta 420

cctcgtcag aacgtctaca aggaggacgg tggcgtgt 458

<210> 37507

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-033-Q1-K1-F6

<400> 37507

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gaaggcgcag ccggagtgcc actcgtgcga gtccggctcg ccgccctcaa ccggcgtccc 180

cctgccccca atcagcatac cgtcagtccc cctgccccca gtcagcatac cgtcagtccc 240

actgccccct gtcagtatac cgtcgggtccc catcccaccg gtcaccacgc tgccccagct 300

cgtcggactg ccgcccgtga cccttcctcc cattccgatc atcggaggaa gcccgccgaa 360

gaagggccac cggaaggcgt gcccgccgnc ttcgtcttcc ccgacgcca cggccacgcc 420

cacgccgttc tcggacaagt gcccacatga cgcgc 455

<210> 37508

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-F7

<400> 37508

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atcagtaa at gtttaccatc actatctttg gaggtgggtcc aacgtgttgt ggaaatatta 120

aagcttttca aactaggac ttgccaactt gttctcgggtg caggagccat gcatgtgtct 180

ggacttaaat caattacgtg caagcattta gctttggcga gtcaa atcat tagttttatg 240

cattctttta ttccagatat caggcgagta cttttcctga aaatacctga agcgcgcaaa 300

catctgttaa tgtctgagct ggatagagta gctcatgact acaagatcca tcgagatgaa 360

attcacaaca aacttgttca gataatgata gagagggtgc ttgcaa atct tataaaatta 420

ccccaaattg tg 432

<210> 37509

<211> 139

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-F8

<400> 37509

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ttttatgtgg ttgtttttt 139

<210> 37510

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-F9

<400> 37510

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cggcggcggc ggtcctggca gcggcgctgc tgctgctggc ggcgggggcc gggacggcgt 180

cggcggcggt gagctgcgtc gaggtgacag tgacgggtggc gccgtgcctg gggtagcgca 240

tgggcagcgc ggcgtcgccc tccggggctt gctgcaacgg tgtgcgctcg ctcaaccgcc 300

gcgcagtcga ctgcatggga cgggctagcc acctgcaact gtgtaaagag catgacagaa 360  
cctctc 366

<210> 37511  
<211> 445  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-033-Q1-K1-G1  
  
<400> 37511

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aggacaagat cagacctctc tggaggcatt acttccagaa cacacagggt cttatctttg 180  
ttgtggatag caatgaccgt gaccgtgttg ttgaagccag agatgagctg cacaggatgc 240  
tgaacgagga tgagctacgt gatgctgtgc tgcttgtttt cgccaacaag caagatcttc 300  
ctaattgccat gaatgctgct gagatcactg acaagcttgg attacactcc ctgcggcagc 360  
gacactggta catccagagc acttgtgcca caactggcga gggctctgtac gagggcctgg 420  
actggctgtc cagcaacatt gcgag 445

<210> 37512  
<211> 344  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-033-Q1-K1-G10  
  
<400> 37512

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ttctctgggc tcggagaacc ggagagaagc gcgcgcggcc atggcgcca gcgcctctcg 180  
gttcatcaag tgcgtcacgg tcggcgacgg tgccgtgggc aagacatgta tgctcatctg 240  
ctacaccagc aacaagttcc cactgacta catacctacg gtgttcgaca atttcagtgc 300  
aaatgtagtt gtggatggca cactgtgaa tttgggcctt tggg 344

<210> 37513

<211> 455  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-G12

<400> 37513

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ttcataagct cgggtggccag ttccacctgc gctcgatcat ctctgaaggt gtacgggccc 180  
gtaacatatg cccatctgtc tcatcttatg aaaggagatt tgccacaagg aactacatga 240  
cccagagcct ttggggccct tcaatgtctg ttagcgggtg catcaatgtc ccagtgatgc 300  
agaccccgct ctgtgctaata gctcctgctg agaaaggagg caagaacttc atgattgatt 360  
tcatgatggg cgggtgtttca gctgctgttt caaagactgc tgctgctccc atcgagcgtg 420  
tgaagctgct tattcagaac caagatgaga tgatt 455

<210> 37514  
<211> 458  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-G2

<400> 37514

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gtggactcca aggaccttca gcagcagagc aaggcgtcgc acaagctcac tgatcatgtc 180  
gaggaccggc agctcgattc atcccgtgtc caatccgccca tggcagcact tgcttcatcc 240  
aaggaggctg actggaacgc gatgaggctg atggagaaaag aattggctgc tgtgaagatc 300  
aaccctgccg atgtcgaaat tatcgctact gagcttgagc tggacaagaa gatcgcgag 360  
agaacgctcc gtgagcaciaa gggatgatgcc gtggctgcgg ttcgattcct gctgcgctag 420  
ttccgagatt tcgtcgccag catcatatgt tccccttc 458

<210> 37515  
<211> 449  
<212> DNA



<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-G3

<400> 37515

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gaaccttgat gaggtggagc ctagcatgtc tggcccaaag aggctcatg atcgtgtccc  180
tttgaaggaa atgaaatcag attggcatgc ttgcctggac aacaaagttg ggttcaaggg  240
ttttgcagtg ccaaaggagc agcaggataa ggttgtcaaa tttgactttc atgggcagcc  300
agcagaaatc aagcatggta gtgttggtat agcagcaata actagctgca caaacacctc  360
aaatcctagt gctatgcttg gtgctgggtc tgtagctaag aaagcttgcg agatgggtct  420
tgagggttaa ccatgggtga agacaagcc                                     449

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<210> 37516

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-G5

<400> 37516

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tgtaagacta ctagggtgct gcatacagag ggaagagaag atcctgggtg atgagtacat  120
gcctaacaaa agtctagatg cattcctctt taatcctgaa aagcaacggc ttctagactg  180
gaagaaacgg tttgatataa tcgaaggcat tggtagaagg ctgctatata ttcaccggga  240
ttcg                                             244

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<210> 37517

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-033-Q1-K1-G6

<400> 37517

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aagagaagcg cggagtcagg aagcggagca acaacagcag gccgaggaag agaagagaag 120  
gccaggagggc agcagccagg aggaagagca agagcaagat gctgcgcggg ggctcgagcg 180  
tgctgggggat catcaacttc atcaccttcc tgatctcgat cccgatcctg ggcggcggca 240  
tctggctggc gtcgcgggcc aactccaccg actgcatccg cttcctgcag tggcccatca 300  
tcattgtggg gctcgtcctc atggatcatc ccctcatggg cttcgccggc gcctgctacc 360  
gncagacctg gctgctccgn ctctacctct tcgccatgtt cttcgtcgtc ctgcgcgttc 420  
tctttttcat cgtcttc 437

<210> 37518  
<211> 408  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-G7

<400> 37518

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cgcgctacat gaaggagtct gccaaagtgt tgaaacagtt caacgccgag aagaagccca 180  
gcaagaagat tcttacgcca gcttagaaat cgggggcctc atgatgtggg tgcagcccat 240  
aaaaaactgg tgtgtggttt ggaaccgaaa attttctgtt tttttccgcc acgagaagtt 300  
ctggaagcat actctccagc accgtggcta ataacgcatt gttccaattc agtctggcct 360  
tgtcatgcat gcaataaata aagtgatggg tttcccatgt tcaatatc 408

<210> 37519  
<211> 457  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-G8

<400> 37519

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tcatggcgtg ggagctgatg aacgagccgc gttgccagtc cgacgtgtcg ggccacgcca 180

tccagtcgtg gatcacggag atggcgggcg acgtgaagtc catcgacggg aaccacctgc 240  
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 cggggtacca ggtgggcacc gacttcatcg cctggctcga cggccacatc gccgacgcgc 360  
 gggcggtgct gcgcaagccg ctgctggtgg ccgagttcgg cgagtcgcgc cacgacccgg 420  
 gctacagcgg cggccaacgc gacgcggtgt tcggcac 457

<210> 37520  
 <211> 438  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-G9

<400> 37520

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 ccggcgcgcg tgggcgcgag gcgcggcggc caggccccgt cggccctgc gtgggtgcgg 240  
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 ctgcccggcc tacgagggcg gcatggcggt gcggcgcca tggccccagc cacgacgttg 360  
 gtgctgcgga tccagccccg accccggtgc gggagcgggc gtggcgggcc gggccctgcg 420  
 cacggcgcaa ctcgggcg 438

<210> 37521  
 <211> 392  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-H10

<400> 37521

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 gttatcaaag aaggggagta caagttggtg aagactagat ttagtgcttt cttcgcaaca 180  
 catcttgatt ctgtcctgaa aactgcagga ataaagaact tggttattgt tggagttcag 240

acaccaaatt gcattcggca gactgtgttc gatgctatag cactggacta tgagaaagtt 300  
acggttctaa ttgatgcaac agctgctgca agaccagaaa tccatttgtc caatatcagg 360  
gatatgaaga acatcggagt ggacacgcca ac 392

<210> 37522

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-H12

<400> 37522

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tttttaagga atctcctcca ctggaggaaa ctactcctaa agaagctgtt atgctaagtg 120  
accgagggct tttcaatgtg cagaatcctc aattatccca tgtaacagaa gatgttcaga 180  
atatgaaatc aaagctcaac aatcttgaat caaaattgga agaggctgaa aagatgataa 240  
taaggctaag agaagagagc agaaatacca cccaggagcg ggatgagcta cagc 294

<210> 37523

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-F5

<400> 37523

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cttcacttga gaagcgagaa ttgtatcctt gttttgatgg ggggtatggg agtttgctca 180  
gaaaacaata tggctcttg tctcctgttg cttatgattc ttggtactcg agcactcctg 240  
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gcctgtaggt ggtgcttttc agaatgccaa agtatggagt atggactttg tcaaattctg 360  
accttaatgc tgagtaaata ggacaaactg gccgacaagg tcaaggagtg caaccaggca 420  
gcaccaatga cgatggatgc actc 444

<210> 37524  
<211> 458  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-D10

<400> 37524

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tcaagcacia gaaaaagaga ctcgctccagt cgcccaactc cttcttcatg gatgttaagt 180  
gccaggggtg cttcagcata accactgttt tcagccactc ccagactgtt gttgtgtgcc 240  
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gttctttccg caggaaggga gactagagcg gatgtggtct tcaagttttg ctctatgcc 360  
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<210> 37525  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-F4

<400> 37525

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<210> 37526  
<211> 417

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-052-Q1-K1-F8  
  
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 tctttccccc cttccagagt taggttctgt tggtttcttg cctgcaatat agtttcgtgg 360  
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<210> 37527  
 <211> 413  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-041-Q1-K1-G12  
  
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<210> 37528  
 <211> 251  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-029-Q1-K1-B2  
  
 <400> 37528

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ccaatcatct tctccatggc tcgtctcgac cgtgtgaaga acttgactgg gctgggtggag 180  
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<210> 37529  
<211> 394  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-C1

<400> 37529

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cgccggaaac aaggacaccg tcggccagta cgagtcacac atggcggttca caatgcctgg 180  
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ttctgaacga caggaacaag ccaatcattt tttc 394

<210> 37530  
<211> 443  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-E7

<400> 37530

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ccaactccca gagggtagac agagagaact tggtttcact ttttccttcc cggatgaacca 180  
aacatcaata tcatcaggaa cactcatcaa gtggacaaaag ggcttttcca tcaatggcac 240  
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gaaagttacg gcattagtca atgatacagt cggcacattg gctggtggga gatatatgga 360  
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<210> 37531  
<211> 451  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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ggagcgcgag ttcattgttct acaggaaccc gagcgcggac atgctgctga cggaggcgga 180  
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ctccgagccg tgccgctcgg cgcacatggc cgccatgcgc gcagccaagg ccgcgggcgt 300  
gctctgctcc tacgacccca acgtgcgcct tccgctctgg ccgtcgcccg acgccgcacg 360  
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<210> 37532  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-045-Q1-K1-F2  
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gttcatgttc tacaggaacc cgagcgcgga catgctgctg acggaggcgg agctggacct 180  
gggcctggtg cggcgcgcc aagtggtcca ctacggctcc atctcgtca tctccgagcc 240  
gtgccgctcg gcgcacatgg ccgccatgcg cgcagccaaa gccgtgggcg tgctctgctt 300



ctacgacccc aacgtgcgcc ttccgctctg gccgtcgacc gacgccgcac gcgagggcat 360  
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<212> DNA  
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<223> Clone ID: LIB3069-012-Q1-K1-F2

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gatgctggaa tgtgctcaat ctgtggtgaa gaaagctttg gcactgggtc tgaccacatt 180  
cgtgagaagg atggcatctg ggctgtgctt gcatggcttt caattattgc tttcaagaat 240  
aaggacaacc ttggaggaga taagcttgtc acttgtgaag atattgtccg tcagcactgg 300  
gccacatatg gtcgccatta ctacacacgc tatgactatt aaaatgttga tgcacgggc 359

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<212> DNA  
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<223> unsure at all n locations  
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<400> 37534

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caccaagtgc accgtctgcg acaagacggT gtaccttgtg gacaagctca ccgncgacaa 180  
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caactacaac tccttcgagg gagtgcTcta ctgcaggcct cacttcgacc agctgttcaa 300  
gaggacaggg agcttggaca agagcttcga aggaactccc aaggTtgtca agccagaaag 360  
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atgtgttggA tgcagcanga cagtcta 447

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<223> Clone ID: LIB3069-025-Q1-K1-B6

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<223> unsure at all n locations  
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 gctataatat cgcgccctcg tcgccatcgt caccacacca ccactccctc actgccctct 180  
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 <211> 477  
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 <213> Zea mays

<223> unsure at all n locations  
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gtcatccgca acccatccag agcgaatcca gctaaccctt caattgagct tggacctgag 180  
 ttcaagaagg ttgccaatTT ccttggtcgg ttcaagtcca tccccagcat agttgagctt 240  
 gacagcttga aggtttctgg tgatgtctgg tttggctctg gaattacact caagggcaag 300  
 gtgacaatta tcgccaagcc tggagtgaag ttggagattc cagatggaga cgtacttgag 360  
 aacaaggatg tcaatggccc tgaggatctt taagcaatgt ttatcatcac cagttttccc 420  
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<210> 37538

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-E11

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 atttctcccg gtgaaggcta catctgattt attgcttgtg cagtctgatc tttacacctt 180  
 gggtgatggc tttgtcatcc gcaatccatc cagagcgaat ccagctaacc cttcgattga 240  
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 catcgctgag cttgacagct tgaaggtttc tgggtgatgtc tggtttggtt ctggaattac 360  
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<210> 37539

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-H5

<400> 37539

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 cgctggagga cttcctggcc agggagagcg cggatgaagga ggatgaggtt aagatttctg 180

tcccccccgcc gccggtcatg gggttaccgg gcggagcggg gggcgtgagt gtgcctggcg 240  
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<210> 37540  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-035-Q1-K1-E11  
 <400> 37540

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 aaatggacat gctgaaactc ctggaaccgc gccaaagtgc ccagaaatga atgggaaaag 180  
 tgagcctggc agaacatctg ctccatctgc caatgggatt acctcgaca gtgagagtgg 240  
 aagtgagagt gagagtgaag gaagtgatgc caattatgaa aatgattcac attcaaagga 300  
 caatgatgga aaggaagatg gcaattctca gaatagca 338

<210> 37541  
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 <213> Zea mays  
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 agaaaataac tatgactcca gctgccatct caagggaagc tggctctcca ggatatggtc 180  
 ctggtcctgg agaaaacttt cttcagggtca gttcaaggaa tactagctgt gagcagagtg 240  
 tgatactggc tcttaccgct atcgcaagag aagttgggtc accaggatat gcgactggag 300  
 aaaaccagcg caatgggggt ccatggaata caagttatga gcgaagacta tttatgaatc 360  
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443

<210> 37542

<211> 417

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caaaccgcat tgaaagtctt gatccagcct tgcttcggcc aggccgtata gaccggaaga 180  
ttgaatttcc tetaccagat attaaaacta gacgacgcat cttccagata cacacatcga 240  
aaatgacatt agctgatgat gtgaacttgg aagagtttgt tatgaccaa gacgagtttt 300  
cgggtgctga tattaaggca atctgcacag aggctggatt gcttgcctta agagaacgca 360  
gaatgaaggt gacccatgca gatttcaaga aagcaaaaga gaaggtgatg tacaaga 417

<210> 37543

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-G7

<400> 37543

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aagaatgggc tcggaagcgg actgcgacag gatcaggggc ccgtggagcc ccgaggagga 180  
cgacgcgctg cggcggtctg tggagcggca cggcgcgccg aactggacgg cgatcgggcg 240  
cgagatcccg gagcggtcgg gcaagtcgtg ccgcctgcgg tggtgcaacc agctgtcgcc 300  
gcaagtggag cgccggccct tcacggcgga agaggacgcg gccatcgtcc gcgcccacgc 360  
gcg 363

<210> 37544

<211> 453

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-033-Q1-K1-G4  
 <400> 37544

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tacttgatca gctctttgac ctcaaaaagca aggaacaaga attgctggat ctcaataaag  180
acctaaggaa gcagctgcaa gaaacaaggc cagagaacgc gtcctgtgtc tctggggagg  240
aaggtgggca cagtggcgca agtgggaatg ttcttgatcc ttatcagggg ctccttcagc  300
acctggacaa cgatccttcc ctgcaggctc ggtaccatca tcaagcctac atggatcagc  360
tgaacaacga ggacctggtg gacccgaatg agcatggctg atctggatgg atatgaaatg  420
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 <212> DNA  
 <213> Zea mays  
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tggcacgtgc ggttgctcat cacactgact gcaccttcac cagggtgtct ggttctgagt  180
tggttcagaa gtatattggt gagggctccc agatggttag ggaactcttt gttatggcca  240
gggaacatgc accatccatt atatttatgg atgaaattga ctctatcgga tctgctagaa  300
tggagtctgg aactggcaac ggtgacagtg aagttcagcg tactatgctt gaactttcta  360
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<223> unsure at all n locations  
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tgcaagaagc agccgcctat gacgatggct ccgccgnega ctctgtgcgcc ggcagtcgac 360  
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tacatagga 429

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aacagcagac cagttcgtct tccacgtcct tcatgttaag ggaagctgcc ccaacaacaa 240  
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<210> 37548  
<211> 450  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-F11

<400> 37548

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gagcgacagc gctggcgggc tgaggaagac gccgtcctgc gcgcctacgt ccggcagtac 360

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tacagcatca ttggcttttg tgatatcctt ctctctggtc ttttagttgc tttctcgcta 240

agatacgatt tttctgcaaa gaagggttta cggctctggtt actttttgtg ggcaatggtg 300

gcctatggct ctggacttct aatcacatat gttgcgctga acctgatgga tgggcatgga 360

caacctgccc ttttgtacat cgtgcccttc actcttggca ccttgatcgc gcttggatgg 420

aagagagggg agctgcagaa cctgtgggag aggggag 457

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<211> 325

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 37550



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 <213> Zea mays

<223> unsure at all n locations  
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 aaagaatcaa atgctacttg atcagctctn tgacctcaaa agcaaggaac aagaattgct 240  
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<223> Clone ID: LIB3069-039-Q1-K1-G10

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<210> 37553  
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<213> Zea mays  
<223> Clone ID: LIB3069-036-Q1-K1-H9  
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ggttgacatt ccggtgacca atttggttga agatgttaaa gtgttattgg atgagattca 240

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<210> 37558

<211> 435

<212> DNA

<213> Zea mays

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cattcaaaga cactgctgga ccgtcgctgc atgttcttat caagatgctc gccacaatca 300

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<210> 37559

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-F4

<400> 37559

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 ataactatgg cttcattcca ctgcacactc tgtgaggata acgacccctt ggatgtcctc 180  
 atactgatgc aggaacaagt tgtccctgtg tgattcctgc gagctcgtgc tattgggctc 240  
 atgcctatga tcgatcaggt ctagtgtctt cgtcacctga tcgcatagtg cttgctatgt 300  
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<210> 37560

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-D9

<400> 37560

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 ttgagaagat tgtcaaaacc ctgaatgaag gaaatgttcc ctcttcagat gttgttgagg 180  
 tcgttgtagc tctctcttat gtgttctctc cgggtggtaa gagccagctg cgccaagagt 240  
 tccaagttgc tgcttagaac tgctgggtga ataaggaggg tgcattcact ggtgaaatta 300  
 gtgctgaaat gctcgtcaac cttggcgctc cctgggtcat tcttggaacac tctgaaagga 360  
 gagctctgct gggagaatca aatgagtttg ttggagacaa ggttggcttt gctctgtcta 420  
 agggactaaa ggtcattgca tgtgttggtg 450

<210> 37561

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-C4

<400> 37561

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 attgcatgtg ttggtgagac acttgagcag aaggaggctg ggtctaccat ggaggttggt 180  
 gctgcacaaa caaaagcaat tgctgagaag atcaaggact ggagcaacgt agttgttgcc 240

tatgaaccag tttgggctat tggaact

267

<210> 37562  
<211> 419  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-D9

<400> 37562

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ttcgcgctct acgagaagca cgaggcgaag aaggaccccg agcacgcgca ccgacacaag 120  
atcgaggagg aggtcgcggc ggcggcggcc gtcggtccg gcggcttcgg cttccacgag 180  
caccacgaga agaagaagga ccacaaggag gccgaggagg tcggcagcta gaagaagcac 240  
caattcttcg gctagctgac tgatectccc atatcgatcg tcgtgcctgc ccgcttgcta 300  
cacctgcgtg tgagagtgat ctcgagcgcc ggccggcctg cacacgcgac gtgttgggcg 360  
tacgtacgga cggatacatg tatgtatgta tatgcgcacg tgtgatgcac gaataagcg 419

<210> 37563  
<211> 363  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-033-Q1-K1-E1

<400> 37563

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agccatggcc gctgacactt cgaagccctt cttccccgcg gcgccgcact cggctctccg 120  
cccctccagg agcgccgnet cgcgcgcggt cctgagagc tctactggc gcgccttcg 180  
ctcctcggag ctcttgctcg acgccggctt ccccgtcacc gatctcacct tcgcctcctc 240  
tgtggaagac agagctgccc ctaccctcgc cgcttcctgg tccacctacg tgcacgtott 300  
cttcttcgac cccctcgaga agctccgtag gatctctgtc gcgggcgata tagccttctt 360  
ccc 363

<210> 37564  
<211> 180

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-E11

<400> 37564

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 caaggagatc gttgccttcg ctcccctcgt cctcttcagc aaaacttctt gccctttctg 120  
 cgtccgcgtg aaacacatgt tcgagaaact ctgagcaagc taaaaagcca tttagattgg 180

<210> 37565  
 <211> 395  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-E12

<400> 37565

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 accagtgttc ctccgcgtc gccaaagcaca tcaaggcgcc cgtccacctc gtctggtctc 180  
 tagtgaggcg gtttgatcaa ccacagcttt tcaagccctt tgtgagccgg tgtgaaatga 240  
 agggcaacat tgagattggc agtgtcaggg aggttaatgt aaagtctggg ctgccagcca 300  
 caagaagcac ggagaggctg gaactgttag atgacaatga gcacatactc agcgtcagat 360  
 ttgttgaag tgatcacagg ctgcagaact actca 395

<210> 37566  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-E2

<400> 37566

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 agctggcggc gccccggcct gcggcgccac cgctccggcc ggctccctc cgcgccgcg 180  
 caatcgctt cgtcccctcc ccgcgcggg tccgcgtctc cgtcgccggg cgggccagga 240

tccccctccgt cattgcgatg gcttctgcca aggaaggaaa tggatgcaccg accaagaaaa 300  
 cctcgcttca cgatctctac gagctccagg gcctctcccc gtggtatgac aacctctgcc 360  
 gacctgtcac cgacttgctt gcccttatcg gcagcgggtgt tcgtggagtc accagcaacc 420  
 ctacaattt 429

<210> 37567  
 <211> 448  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-033-Q1-K1-E3

<400> 37567

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 tccccctctg tctccagtc accaccgtgg tcgggcccgc tcgcctcttc cgtcgacctc 180  
 atccgctggc tcccttcttc ctgcgcgtcg ccgtcatcag ccacggcccc acctccggcc 240  
 ccttcgtctc tcacatcttc ctcccttct cgcaccccggt ctcccggttc gcctccgtcc 300  
 cgctcccgtt cgtgagcgag agggcaactt atgtgttatt tcaggcagtg taaatttgtc 360  
 agttccgatg tgggaaaaga atttttcaac ggatgctngt gctatccctt gggctaaact 420  
 gtgtgagacc aaaggattga tgtctctg 448

<210> 37568  
 <211> 415  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-E4

<400> 37568

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 cgccgacgcc ccggcggcgc ctgctgccga cgcgaagccg gccaaaggcca agaaggccac 180  
 cgcgccgaag aagcgcgcca gcccgaccca cccgccgtac gccgagatgg tctcggaggc 240



gatcacgtcg ctcaaggaga ggacggggtc cagcagctac gcgattgcc a gtttcgtgga 300  
 ggacaagcac aaggccaagc tcccgcccaa cttccgcaag cttctgaacg ttcagctcaa 360  
 gaagctcgtc gccggcggca agctgaccaa ggtgaagaac tcgtacaagc tgtcg 415

<210> 37569

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-E5

<400> 37569

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 tccgggaagc cgtccacta caagggtcc accttcacc gcgtcatccc cgagttcatg 180  
 tgccagggct ggcacttcac ccgcggaac ggcaccggcg gcgagtcac ctacggcgag 240  
 aagttccccg acgagaagtt cgtgcgcaag cacaccggcc ccggtgtgct ctccatggcc 300  
 aacgccgggc ccaacaccaa cgggtcccag ttcttcacat gcaccgtcgc gacccttgg 360  
 ctgcacggca agcacgtcgt cttcgccag gtcgtcgaag gcatggacg 409

<210> 37570

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-E6

<400> 37570

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 cccgtcctat gccgcctcgc tttgatgtgt gtcgtcatct ttaatcccag taactcttcc 120  
 gatacgctc ttgtcatggt tcacctcgtg gtcagcccca tctgggtcat gggggcggaa 180  
 gatctcaaca ctgcttcata tggctgtttt agatgttggt tgccgggtag agaaagtat 240  
 tgtgataaat gattttcgc ctctcatcac attcgcaatc ctcgtcaatc atcgctggtt 300  
 tgagagaaat taccataaga tatggagaag aaagtgaagc cgcaccacac cgtcaggtgt 360  
 tcaacgacat gctcgagcca ggatttatca gcattcttgt gagtagtgag tcatgtttga 420

tgctgggtag ttgaatttat ttttctta

448

<210> 37571

<211> 344

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-033-Q1-K1-E7

<400> 37571

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ttgaactcgc tgatcagctt caaaagctaa aaattgagcc agtactacta cactacctct 120

cccgcgatgag catacttcaa gggttggaac tgaggttgag tacaagcacc agactaaagg 180

cctgcctcta cagcttcaact tctcctggtg gccctaccta cccaacacgg gctgttcgan 240

gnncannnnn ntnnagcnng anagcnccan cnncagatgc agatgcagca attgcaactt 300

atgcatcaga gacatgctca actttaacga actaacgcga atca 344

<210> 37572

<211> 122

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-E8

<400> 37572

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ggcgacccac atgactgata cttctgctcc gtttgtggat gcttaatcac aggagctctt 120

ct 122

<210> 37573

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-E9

<400> 37573

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tcttgtgaac gagactaagc ttgacagcga gattaagtct tggcttgctt ttgctgcccc 120

gaaggttggt gaggttgatg ctcttgctaa ggcattggct ggtcaaaagg atgaggctta 180  
 cttcgcagca aatgctgctg ctcaggcctc gaggaatatc tcaccccgctg tgaccaatga 240  
 agaagtccag aaggctgctg ctgctctcaa gggctctgac caccgccgtg ggaccaacgt 300  
 tagtgctaga ttggatgccc agcagaagaa gcttaacctc cccatccttc ccaccactac 360  
 aatc 364

<210> 37574  
 <211> 453  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-F1

<400> 37574

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 acctgctgaa gaggaacctg cagacgacgg ccaaggcttt catgaccgag ggaaagggtt 120  
 ctgctgatcc agttgcaatt gatgctcctg gaggggtttct ctttgagtgg tgggtctgtct 180  
 tttgggatat attcatcgca aggacaaatg aaaagcattc tgaagttgca gcggcatatc 240  
 tagaggcaca gcaaataaaa gcaagagagc accagcagca gatgcagatg cagcaattgc 300  
 aacttatgca tcaaagacat gctcaacttc agcgaactaa cgcgatcat ccttcactta 360  
 atggtccaat aaatgcttta aattctgagg gcattttggg gccatcaaca gctagtgtct 420  
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<210> 37575  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-033-Q1-K1-F10

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 tcagcgagcg agaccgaggg gtagagaaag agcgggtgctt agccacccat gtcgctgcgt 180

ccgagcgcgc gggtcgaggt acggcggaac cgctacaagg tggcggttga cgcgaggag 240  
 gggcggcggc ggcgcgagga caatatggtg gagatccgca agagccgccg tgaggagagc 300  
 ctntcaaga ggcgcggtga ggggctccag gccaggtcc ctgcccctcc ctccgngtt 360  
 gagaagaagc ttgaaagcct cccagctatg gttagtgggg tttattcgga tgataataac 420  
 cttcagcttg aggccaccac acag 444

<210> 37576  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-F3

<400> 37576

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 agatccgtgg tttggatcag gactacgagg gcaatggtga ggccactggt gaggacttct 180  
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 atattcctca cagcgagaag aggtttgctg gattcaagaa ggacgacaag cagttggatg 360  
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 ct 422

<210> 37577  
 <211> 439  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-F4

<400> 37577

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 cggcaggaga tcgacttctt tggtaggtg tccgggatca cgctgagccc ggacgacgag 180  
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cgcggtattcg actatcttga ctcatatctg tgaagaactg agcttttggtg accggtggtg 300  
 tgctaggtgc tggctgaagg ttctgatgcg cggttcaggg aatatatctg cctgctctta 360  
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<210> 37578  
 <211> 269  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-D8

<400> 37578

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 ctgatactta cacaagatat gcgagatgat atggtttaaa ttttgaacgg aagttgcgga 180  
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<210> 37579  
 <211> 457  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-C4

<400> 37579

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 tgtcagcgct ggaattcgga gcgtagtgga tgatgaagct gggaaatcaa atggtggtct 180  
 caagagtgat ccaatgtgca atgcttgtga gatggctgtg gtatggatgc agaaccaact 240  
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<210> 37580  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <211> 453  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-033-Q1-K1-C6  
  
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<210> 37582  
<211> 456  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-C7

<400> 37582

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gatttgttca gttctgctat gagccaatca agcaaatcat caagacctgc atgaatgacc 240  
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aggagttgat tggcaaagct ttgatgaagc gtgttatgca aacgtggcct ccagctagca 360  
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<210> 37583  
<211> 336  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-C8

<400> 37583

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ttttgtgttg ggaaacctga acgcaattga ataggccgct tgttttacaac aaccgggggtg 180  
tcaaaagtta tactgtgcgc aatgcatgtt ccatggctga catatggatt cacaacgaag 240  
tcgcccatac caaagcgccc tgagcccaat ctccattgcc ttcattagct ctgcccgcac 300  
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<210> 37584  
<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-C9

<400> 37584

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ggatattcctg cattggatcc tcaacagtat atggaaacaa tgcaacaagt catgcaaaac 180  
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tccagtatgc ttgagaactt gaccagtcca gtcataagg agcagcttga ggagaggatg 300  
gcccgatatca aggaagatcc atccttgaag ccaattcttg atgagataga gaatgggggt 360  
ccatctgcaa tgggtgaagta ttggaatgac cctgagggtc ttcaaaagat tggccaggca 420  
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<210> 37585

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-D1

<400> 37585

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ggcattcgtc gatggaccac cctggcgcca aggacgatgg agacggggaa gaaagccagt 180  
acttctcgga cgcggaggac cggtcgtggc cgtcgcactc gcgccacgac tccaccgcct 240  
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atgccgacgg cgaggccgtc agacaacact gcaggaagtc gtcgtgcgtg tcagagggct 360  
cgctggacga cgttgacctg gaggccggac tgagcgagat catcaaggcc agccctgaga 420  
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<210> 37586

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-D10

<400> 37586



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 gaatcacgat ggttccagga atcgccccca agacggcggc gcgaccggtg gcctgggcac 180  
 ctcagcctcg gaacatgttc gtgttcggcg caggtttcgt cggccgctac gtttcggagc 240  
 gcctcctcgc gcaaggctgg cagggtctccg ggacgtgcac cactgtcacc acgaagaggg 300  
 agctagagat gctgggcatg aatgcttccg ttttcgatgg cacagaagac agcctggaaa 360  
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<210> 37587

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-D11

<400> 37587

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 ctccaatcgt tgetgacccg tgtgatctcc actgacttcc gcaaggagtg cgggcacctt 180  
 cgggtcccatc cgatgttaag gcttacctcg cttatggtgt tccacagagt gacatgaaac 240  
 tgtaatcact tatgcaaaag ttgctagacc agcggcagag catgaacata tggcgctttg 300  
 tacatacaat gaatactgtt gggaccatgc ttcgtcgccg aaggctcctgc aaaaagaaac 360  
 agcttcggct gaaggtgctt gaacatgctg ccgaagacac agttcacgaa gcttcggaac 420  
 tacaacatat ccaaagacg 439

<210> 37588

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-D12

<400> 37588

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ggatgagcac cacaagaagg ccgaggagca ccacaagaag gaggaggggg agcaccacaa 180  
gaaggacggc ggggagcata aggaaggcat cgtggagaag atcaaggaca agatcaccgg 240  
cgagcacggc gacaagtccg gcgaccacaa gg 272

<210> 37589  
<211> 426  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-033-Q1-K1-D3  
<400> 37589

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tcgggtggact cgctgaaccc gttcatgcac gcccggtggg tcgccttcat ggtggacaac 120  
tgctccacaa cggtcgcct gggatccagg aagtgggcgc ctgccttoga ctacatcctg 180  
acgcagcagg cctttgtggc ggtggacaag gacgccccga tcaaccagga cctcatcagc 240  
aacttcttgt cggacctgt ccatggtgcc attgaagtct gcgccgagct gaagcccacc 300  
gtcgacatct ctgtgcctgc caacgccgac tttgtgcgcc cggagctccg gcagtcttcc 360  
tagattgaag caatgagcgg agagggagag ggagagagaa agagaggatt tcgtgtcccg 420  
agttag 426

<210> 37590  
<211> 330  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-033-Q1-K1-D4  
<400> 37590

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gtagctgggt cgtgcgtggt gtggtggtaa gaaattcttc tgctgcctgt gttctttag 120  
cctcctcgtc ctgcgccacc ctgttggtac gtgtacggtg tacgtagtct gccgccgcgc 180  
gctgttcgtg ttgcgtcgtg ctgcgtgtctg tattatactc gtctctccca tcaaaaaaaaa 240  
agttgttcca tgtacgtgtg cactgtcgag tgatgtttgg ctggacgtga tcgtgattac 300  
tcctggaaac tatccggcgc gtgcagatcg 330

<210> 37591  
<211> 403  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-D5

<400> 37591

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gccacggccc cgacgtctcc cgtcccgagg cgtcaccccg tggtagggcg gccccgggcc 120  
tcaacgggtc ggaggcgaga ctccctgcga cgcggggctt cttggcccca ggggtcggg 180  
cgtgggtgcc cacggcgagc gggccccggg cccctgcggc acggggcgga ctgcctgcga 240  
cgcgggggcc cccctgcccc ggcggtcagg gcgagggccc ccgacgcga ctggtgaggc 300  
gcggcagcct gcggcgcttg ggactgtgg ccggccaggc gggccacagc cagcgggggc 360  
gcgcagcccc gcggccttag agccggcccc gcttatacac ggg 403

<210> 37592  
<211> 145  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-D6

<400> 37592

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caaccttgcc gtgaccgaa tggccccaga tggaaacttg gcagcaactt ccagcttgcc 120  
tgaaaggctg atagtgcata tacgc 145

<210> 37593  
<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-D7

<400> 37593

cccacgcgtc cgcgtttgca aacattagga tcgtgaacaa gtttttgaac ggagaagttg 60  
gaccaagac cattcatgtt cctactgggg agaagctttc tgtttttgat gcggccatga 120

gatacaaadc tgagggccat gctactataa tcctcgctgg tgctgagtat ggaagcggca 180  
gttctcgtga ttgggctgct aagggctccga tgctcctggg agttaagct gtaattgccca 240  
agagctttga gcgtatccac agaagcaact tgggtggggat gggaatcatt cctctgtgct 300  
tcaaagctgg tgaggatgct gattcgcttg gcctcactgg acatgagcgg tacagcatcg 360  
atctccctac caacctcagt gagatccgtc ccggccagga tgtgactgtt actaccgaca 420  
atgggaaadc tttcac 436

<210> 37594  
<211> 455  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-C3

<400> 37594  
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atgagggagc ctcagatgtg tcaagtagtc tgcaagatat ctggtgggga gaaagaagca 120  
aagctttctca aggagaagat tgaagatgaa taccgtgtta acatgattct tgacaacctca 180  
cctttagtcg ttctattca aagagtggat caagaaggty catatttcta tcaacatgga 240  
ttccatgttg gggccaaagg aaaatattca gggagcaaag atgaaaaata cttcatccac 300  
aaccatctat cttttacggt gaaatatcac agggatgagc aaagggatgt ttccaggatt 360  
gtggcctttg aagtgaacc atacagcgtt aagcatgaat atgaagggca atggaatgat 420  
aagaagaccc ggctgacaac gtgtgaccct catgc 455

<210> 37595  
<211> 446  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-033-Q1-K1-B1

<400> 37595  
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gtcgccccctc cgcttctcca agttcttcca ggctaacctg cggtatcctgg tcaactggtg 120

ggcgggcttc atcgggtcgc acctcgtgga caggctcatg gagaacgaga agcacgaggt 180  
cattgttgct gataactttt tcaccgggtc aaaagataac ctgaagaagt ggatcggaca 240  
cccaagattt gagctcatcc gccatgatgt cactgagcca cttcttgtgg aggttgacca 300  
gatctatcac cttgcttgcc ctgcttcacc aatcttctac aagcacaatc ctgttaagac 360  
catcaagaca aatgttattg gtaccctgaa catgctggga cttgcaaaga gagttggagc 420  
taggatttnt gtgacatcaa catctg 446

<210> 37596  
<211> 452  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-033-Q1-K1-B10

<400> 37596  
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cccacgcgtc cgtcccacgc tccgcccacg cgtgggatcg tcttctctcc ctcacatcct 120  
ctggcctctg gtctctccacc gtctctgtag ccagagctgc tcttgtacgc gcagctggcc 180  
tctgtgcata tcaccagcac accgcgcagg ggaaggaaat taacaagaga aaaggcaagg 240  
agagcaggca ggcaaggag ctgcagaagc caaggaggga gaaggaggat catcaatgag 300  
catctcggtg aacgggcagt cgtgcgtgcc gccgggggtc cgtcttcacc ccacggagga 360  
ggagctgctc aactactacc tncgcaagaa ggtggcctcc caggagatcg acctcgacgt 420  
catccgcgac gtgcacctca acaagctcga gc 452

<210> 37597  
<211> 429  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-033-Q1-K1-B11

<400> 37597  
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gtctcttatt agctctaggc tctagctagc cgcgccactc cttcgtgtag ccatcagcct 120

tctcatcgcc accaatggcc actgccgagg tccagacccc gaccgtcgtg gcggccgagg 180  
aagcgcccggt ggtggagacc ccgccgccgg ccgtcgtgcc cgaggagtct gccccgccg 240  
aggccgagggc cgaggccgag gctgctgctc ctgctgatcc cgaggagctt cccgcggccg 300  
agcagcaggc agccgccgag gcggaggccg cggctcctgc tggcgccgag gagcccgctg 360  
cggccgaacc ggccgncgag gcggaggctg ctgctcctgc tggccccgag gagactcctg 420  
cggtcgagc 429

<210> 37598  
<211> 348  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-B12

<400> 37598  
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gggatataaa aaaactcaaa attaaaaaaaa aaaaaataca aaaaataaaa atataaataa 120  
aaataacaaa aaaaaagggtt taccgtttta cagtttccaa gtttacgact ggaaaaaccc 180  
aggtgttacc tattttattg ggcacccaaa aaaaaatcct tttgccagtt ttttaaaaaa 240  
ctcaaaaggg caaacctttt ggcttttcca aataattcgc tattctgaat attcattttt 300  
accccccttt taaagtacca taaaagcccc aagcaatggc ttttccaa 348

<210> 37599  
<211> 280  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-B2

<400> 37599  
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cacggctgct accagaaagg gcaggttcga tcgggtctagt gtgaactcgg ctttgaataa 120  
ctagtctgtg gacaagggtc agttcgggtga tgtgtatgga acggtcgtca ctgagtcatg 180  
cacgatttgg tatccacgtg attatggctg acggtttgag gaactctctg atccatcatg 240  
acacaaagtt gatgctgcgc gaacgaccgg atatcattct 280

<210> 37600  
 <211> 462  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-033-Q1-K1-B3  
  
 <400> 37600  
  
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 gactaaaatc agaagaaatt gaggagttgt ggagtgaagc tgaccgtgat ggcgatgggtg 120  
 ttattaacta caaagaatct cagtgcattc ggagcccaaa ctgctgtagt caagaggagg 180  
 aggatactga aattgacatc actgatgaaa gtctggacac ttttgaggca aacaacgaag 240  
 ccttcggctt caccgtgaag gaagctgttc tctttcccc agaagtagag aagggcattgt 300  
 ggccagaaaa ctacagcctc tcagatcatg ctccctcac tgttggtattc tcccctatta 360  
 gaatgccttg ctctccacgc aatcgtgggg agctctagct atctaattgc aatgatctca 420  
 tgtatacata tacatgcccc acgaaatcgg tgtagattt gg 462

<210> 37601  
 <211> 454  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-033-Q1-K1-B5  
  
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 ctttgcttcc actgaaaact catatcaagg gcccggcacc agcctctgac cctgataaag 120  
 cggacattgt tgatgaagcc ataactttct ttcgagccaa tgttttcttc aaaaatttcc 180  
 atgtgaaaag ctacgcagac aagttattga tctatctgac gttttatata aatattgcct 240  
 taaaaagact agacgggtgc cggacactag ctgttgggac taaagcaatc attaattctgg 300  
 gattggagaa agttcctgta cctggggaac cagggtttcc tttccctgga cttttcactc 360  
 ttccccagtc ccaggaggaa gcagaattgt tgaggaatta tttgaagcag ataacggagg 420  
 aaacaagtgg aagattgctc aactgtgcat acag 454

<210> 37602

<211> 455  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-033-Q1-K1-B7  
  
 <400> 37602  
  
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 aggacagcat ctcagcgccg ccgccatcgt cggtcacgac ggcagcgttt gggcgcgatc 180  
 cgagagcttc cccgagttaa agcctgagga ggttgctggt atcataaagg actttgatga 240  
 acctggtact cttgcaccaa ctggtctttt cgttggaggt acaaagtaca tggatgatcca 300  
 aggtgaacct ggagttgtca tccgaggaaa gaagggcact gggggcatta ctatcaagaa 360  
 aaccggcatg tccttgatta ttggtgtcta cgacgagcca atgactccag ggcaatgcaa 420  
 catggtggtg gaaaggctcg gcgattacct gatcg 455

<210> 37603  
 <211> 454  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-033-Q1-K1-B8  
  
 <400> 37603  
  
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 atcgcccgcg cgcgccacga gaacctggtc ccgcttaggg ccttctacca ggggagggcg 180  
 ggcgagaagc tgctggtgta cgactacttc ccgcgcagcc ggacgctgca ggagctgctg 240  
 cacggtggca gcgagcccgc ggcggggcgg ccggcgctca cctggggggc gcggcacaag 300  
 atcgcgctgg gcgcggcgcg cgcgctggcg tatctgcacg cgggccaggg cgaggcgcac 360  
 gggaacgtgc gctcgtccat cgtggtggtg gacgacctct tcgtgccgcg cctggcagag 420  
 tacgcggtgg accggctgct ggtgcccgcg gcgg 454

<210> 37604  
 <211> 395  
 <212> DNA



<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-B9

<400> 37604

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tgagatgaag gatgaggaca ctgatectat gagcgataaa gatgggaact gacatgtctg 180

caaagattgc tcttaatgtg caaccgctgc agtattgtctg ccttgccggc attagtgtct 240

gtgcaagcca ttgctcgctt gcctgttcag agtgcctct gtgctcgaca agaatagcag 300

acaggataat cacattgaca tgaacggtgt gctagcttca agctattctg aagcatggcg 360

cactcttgta aaatggtcag cggatatatgt tacta 395

<210> 37605

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-C1

<400> 37605

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cacgtgtcaa gagacgagac ggtcgacatg gctcgacgc aatctggcgt agcggtcgcc 120

gtggtggccg cgggtgctgt gctggcagct ggggcgacaa ccgttgatgc ctgcatcacc 180

tgccggcagg cgagctgcga catcgcgccc tgcctctgct acaccgctg aacggagtcc 240

ggccgcttcg ggtactgctg tagcggcgtc aggaacctct agagcgccgc cagctccgac 300

accgacaggc gcgccgctg caac 324

<210> 37606

<211> 342

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-033-Q1-K1-C10

<400> 37606

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catcagtgtgta gagtgtcggg aggtgtctgt ctctcttggg ggctgggtgc aacgggtcatg 120  
gcgacgtcgt ctcgctcggg gcccttgctg ctgctgtgcc tgggcgtgct ggtgtcctgc 180  
tccttcgcgg cgggcagctt ggaccaggag ctggacatca cgtggggcga cgggcggggc 240  
aaggtccttg acaacggggc gctgctgacg ctgtcgctgg accgcacgtn cggcttcggg 300  
ttccagtccc ggcaacgagta cctgttcggc aagatcgaca tg 342

<210> 37607  
<211> 249  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-C11

<400> 37607  
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ggccattgta atcctcctcc tcgttgctgt cgtaaatttc gtagatctaa ctagctaggg 180  
tgtttcgtga tgattttttt acctcgtgta attctttctg agtggatcaa tagtgattgt 240  
tctttcgcc 249

<210> 37608  
<211> 447  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-C12

<400> 37608  
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aggccctatt tgattactgg ttctgatgac tccactgcaa aggtctggga ttaccagacg 180  
aaaagctgtg ttcagacact tgaaggcat acacataaca tttctgctgt ttgtttccat 240  
cctgagctcc ctataatcat tactggatcc gaagatggta cagtctgtat atggcattca 300  
acaacttaca gacttgagaa cacactaaac tatggccttg agagagtctg ggctgttgga 360  
tacatgaagg gatcaagaaa gatggtgatt gggtatgacg agggggccat tatgataaaa 420

atgggccgtg aagtacctat agcaagt

447

<210> 37609

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-C2

<400> 37609

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ggcgtgctac cgtctctgct cgtcgccgcg ctcgtagggc cgttgteggc cagctgcgcc 180  
gcgggcagga gctagaagct gtacacggcc atgttgagct tcagagactc gctctgcgac 240  
gccggctacc tcatcgggaa cggcacgccc aaggcgctta ccagcgcgcg cgctacctac 300  
gggatgacct tgttacgaag cccacc 326

<210> 37610

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-A8

<400> 37610

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gcttcttcaa atggctaaag cccggtggca aagtctaata cagcgactac tgtaagaatc 120  
ctggaaaacc atcagaagaa tttgctgcgt acattaagca gagaggctat gaccttcacg 180  
acgtgaaggc ttatggacag atgctgaagg atgctggttt tcataatgtc atcgcggaag 240  
atcgactga gcagttcttg aatgttctac agaggagct aggtgaagtt gaaaagaaca 300  
aagacgcttt cctggcagac ttcaccagcagg aggactatga cgacattgtg aatggctgga 360  
acgcgaagct gaaacggagc tctgccggcg agcagaggtg ggggttggtc attgccacca 420  
agtgatttgg cctggcagca agagggtctc tcg 453

<210> 37611

<211> 422

<212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-032-Q1-K1-H10  
 <400> 37611

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 aacaagctga tcctctacgg gctctacaag caagccacgg ttggagatgt gaataccgat 180  
 cgtgcgggca tattctacca aatggacagg gccaaagtggg atgcctggaa ggctgttgaa 240  
 ggcaaatcgt acgatgaggc gatgaatgac tacatcacca aggtgaagca gctccaggag 300  
 gagggctgccg nctcttaaaa ggatcttaat agcgttgccg aacagctatt tgtcagatga 360  
 gctttgtgcc atttactcat tagaagtata tcattcgatc cattggggat cctgtaacca 420  
 tg 422

<210> 37612  
 <211> 169  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-032-Q1-K1-H11  
 <400> 37612

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 cgctgccgta gcgtgcggtg tgccgtcaat tcaaaccacc aatagcaatg cctgcgacgt 120  
 ccgcaaactg cgccaccgcc ggcgtcgccg tcgcgagggg cgacatgtt 169

<210> 37613  
 <211> 313  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-032-Q1-K1-H12  
 <400> 37613

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gacatgacca acttctacag ccagtacaag agcgtcgagc catgggtcaa gcgcaaggac 180  
cagccccgc agcaaggcaa ggagatcccg cagaccaagg ccgaccgggc caagctcgac 240  
ngcatgtacg agtgcatacct ctgcgcctgc tgctccacct nctgcccgtc ctactggtgg 300  
aaccgccgag gag 313

<210> 37614  
<211> 407  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-H2

<400> 37614

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gctccggccg gtggcgccgc caacgccgtt ggaaacgatg atggcgagga gcagcacctc 180  
aacacctttc tcgacgtgc gaatgcgtcg tccgcctact caaggggtga gttcaggaat 240  
atggcgtcgc gcgcgcgggtg ggtggaggaa gccggcgctg cggagggtgt ggagaacagg 300  
ggcaagctgt ggctgaccac cgggtgcact cgggcccggca agctgtacta caacgttgag 360  
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<210> 37615  
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<223> Clone ID: LIB3069-032-Q1-K1-H5

<400> 37615

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acacattgta caaggatacc cagtacaaga aaggtgagga tagcctttca gctcaaggga 180  
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<210> 37616  
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<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-032-Q1-K1-H6  
  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-032-Q1-K1-H7  
  
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 catcctcccg tgcgtggacg tggccactgc gaacgagtcg ctgtaccgga gccaggacgt 240  
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 cccgacgggg ctccgtccgc tctacttcaa ccagtcgggg ccgctcatgc ccgtgctctg 360  
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<210> 37618  
 <211> 453  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-032-Q1-K1-H8  
  
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 cgaactggat ccttgcttac ccgaggaatt aaatcgagcg actagaatct aggtccaaaa 180  
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atcgctcgact agtcggacga ccagggcgac caggtactct agtcaagtcg gctgcctaata 300  
cgagctctgc taaccgacta gcccgactaa tcgagactaa tcgcgattag tcggacgact 360  
tgaaaacaca gtttagctct taaagaggag ctaaacttta gtctgtttct ttagctcttg 420  
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<210> 37619

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-H9

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ttcttctaac ctaaagacat cagctttacc acttaagcga accccttacc agatgactta 180  
acagaggaag agaagttgga gccctaaaa aatgtaaag atgacccatg gattcggcta 240  
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<210> 37620

<211> 463

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-033-Q1-K1-A1

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cgcagccacc gctcctctcc tctcgtcgtc tcttcctgtc ctcggcgtcg aatctcatcc 120  
ggccagtgc cacactctac tagccgcccga gaaggagttc ttccgggatt cgagccttgc 180  
tgccctcacc tctgcaggcc cagcgtcgag cggagatcca atcggaaatt caactgactt 240  
cgtcttttgt cgcaccccg tcaggagaag caatgtcagg agtgatcaca aagttcgcgg 300  
ttacatccat ggtgatgtgg atggcccctg ttgcgatcat gtatgggttt tactaccagg 360  
tgtttccagg tgtgagtcag atgtcatcct cggcgcagac acttgccagt gggttcctgg 420

ctgtcatatc ggттаатста gtgatcggct nttacatatt cat

463

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<211> 441

<212> DNA

<213> Zea mays

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tgagactctg acacggatgt tggcaagacc accagcaccg ccttttggtga ctgctcaaac 180  
tcctgaagtc ggcattctta ttacagctcg caacgtctcg ggtgcactgg tcgccaagct 240  
tcctggtaac aaaaacaagt gtggaggaag atcgaatgtc cggcagcgga acatccaacc 300  
tgggaaaagg ggctgtcgtc gggagtggcg ggcgctctca gcagctgacc aagcgcaagc 360  
ttctaccttg gacgtagatg aggagtgcaa acgggtgctc actccattgg gtttctccag 420  
cgaagacgcc gagaagatgc t 441

<210> 37622

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-A11

<400> 37622

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cggcggagcg tacagtttct tctgtgacct tgacgctctg ggagagaacc tgtacacgat 180  
tataaagttc ggccttggtc aatacatgat tctcaagaca ctatgcgctc tcttggcggt 240  
ggtcttggag ccttttggag cctatggaga tggcgaattc aagtggaatt acgggtatcc 300  
ttacattgcc gctgtcataa acttcagcca gacatgggcg ttgtattgcc ttgtgaagtt 360  
ttacaacgcg acgcatgaaa agctacaggc gataaagcca ctagccaagt tcataagctt 420  
t 421



<210> 37623  
<211> 238  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-A12

<400> 37623

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tgccaagata tgcaaatatg gttgtagatg ttctggtttt cttttggatc atttgtgttt 180  
gtggatgtag tgctacgtgc aatggaatca ccacatttcc cattttatctt gacgcttt 238

<210> 37624  
<211> 448  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-A3

<400> 37624

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caattttctca tctctccaca acgcatgcta tttcgttctt tgacataggg gaaagacaga 180  
aactatccat gccactgttg tttttgtcag tcacaacaac agtaagttag ctgtcctcca 240  
agcgtgatga tgaaccagat aacaatacag aacattctga aacaaatgaa ttggcatcaa 300  
cttctggcac aagtgatgct gctgatggca caaaggaaat cgtacaagag aactggcttg 360  
tgttactttt cagggagctt gagaagcaag gcatcacttt acccgagagg ttactgaag 420  
atgaattacg cagattttat gttgctgc 448

<210> 37625  
<211> 437  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-A4

<400> 37625

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ggtatatctg ggccacttcc cacggccttg ggcgccttct ccaacttgag ttacctcgcc 180  
ctcgccaaca acaagctcac cgggccaatc ccaccatcag tcgggcacct gcaccactcc 240  
ctccgcgaga ttgtcctcct caacaaccag ctcttcgggt gcctccccgg cgagctaggg 300  
atgctcagca aggcggctgt catcgacgcc ggcatgaatc agctcacgg cccaatccct 360  
ccgctctttt cctgcctcag cagagtcgag cagctcaacc tggccgggaa ccgcctctat 420  
ggccatgttc ccgacgc 437

<210> 37626  
<211> 440  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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cagtaacaac tattaaattc tgggatcttg tagctgggag gactatgtgt acccttactc 120  
accataaaaa gtctgtccga gctatggcgc ttcattccaaa ggagaaagca tttgcatcag 180  
catcagcaga caacgtaaag aagttaacc ttcccaaagg cgaatttctg cacaacatgc 240  
tgtcgcagca gaaaacaata atcaattcaa tggctgtaaa tgaggatggg gttttggcaa 300  
ctggagggga taatggaagc ctgtggttnt gggactggaa gagggtcat aactttcaac 360  
aagatcagac tatagtcag cctggatcac tggaaagtga ggcatgcata tatgcctct 420  
catatgacgt gaagcgatca 440

<210> 37627  
<211> 59  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-033-Q1-K1-A6  
<400> 37627

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<210> 37628  
 <211> 426  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-H1

<400> 37628

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 ctagaaagta tagcatatga tgttttgaat aatcatgcac ataggacaga ctataaaaaac 180  
 gaatcttctg ttggactccc agaaactgtt gtgactcaga gtcacttat tgacttcact 240  
 gacaattgtt ttgaagacaa aagggttca attgataaat tgttacctac caataatcta 300  
 gactggccat tgaaggataa gctcaattct acaacagact atgacatttg taggcctatt 360  
 aatgatgatg aacgatcaga cgacgaatca gtgcctaaca tcagttatac cagtcgtgta 420  
 gtgata 426

<210> 37629  
 <211> 134  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-A7

<400> 37629

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 atgtgcattt taat 134

<210> 37630  
 <211> 299  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-F5

<400> 37630

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 tcacgaatcc ggcgatccgt atgctggcca ctaatggcag caatgagcgc atctctgctc 180  
 tcatgtacga ggatacccgga atcgtgctcg atatgtact tgataacgctc atgcttgact 240  
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<210> 37631  
 <211> 455  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-F6

<400> 37631

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 gctgaagatt ctcccttgcc ttggtacttg cccttggatc caagccgatt ctccctgagt 180  
 agcttccgtt tgacctctgt gggacgcatg attaccgcga caatgggtcaa ggccctggag 240  
 tacgttggtc ttgctccgca gggcagttag agggctctcta atttcttgga gaaggctgca 300  
 gaagggctgg tagagggcgg aaagaaggag atcttcacgc caatgtactt ctttcttggt 360  
 cggaagcctc ttctggaatg agctcttgga tcaccttttc agagagagaa ggcaagtggg 420  
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<210> 37632  
 <211> 400  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-F7

<400> 37632

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 ggctcctact gacgccgtcc cttgcggtgc caaaggggcg gagaaccagg gggctcgtgg 180  
 tgagggccgt cacggtcgtg tcacctaagt atacatccat aaaaccattg ggagacagag 240  
 tacttgtgaa gatcaagacc tctgaagcta aatctgatgg agggatttta cttccagtat 300

caattcagac aagaccacaa ggaggggaaa ttgttgcggt tggagaaggg agaagttttg 360  
gaagtaaccg cattgagatc aaggtttcgg gttggtgcac 400

<210> 37633  
<211> 378  
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<213> Zea mays  
  
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<400> 37633

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gagctcctgc tgacgccgtc ccttgcagtg ccaaaggggc ggagaaccag ggggctcgaa 180  
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atacttgtga agatcaagac ctctgaagct aaatctgatg gagggatcct actttcagta 300  
tcagttcaga caataccaca tggaagggaa attgatgcgg ttggagaacg gagaagtttt 360  
ggaagtaacc gcattgag 378

<210> 37634  
<211> 333  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-032-Q1-K1-F9  
  
<400> 37634

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aaaaaaaaac caattgctct aagcaaaata aatgctatgc acccatatat ttcattccagc 180  
tagcttgac atatggtaat ctaaattgtc tactgagacc gttctcctga ccaacctagc 240  
ctagacaaaa cttattgtca cccaaccgac aaacttggac tgcaattccc cttgtagcac 300  
ttgctgaatt acttaccaga caacacccta tgg 333

<210> 37635  
<211> 452

<212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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<400> 37635

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 gcacctcttc gagtgtctgt tgttccgatg acgaagcatc ctctgtcacg agcagggaag 180  
 aaggcctgga atgcccaata tgttgggagt ctttcaatat agtggagaat gtgccttacg 240  
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 tcaaagttcc aactgtgccg atgcagctac ctttcttctg ttgtgtccc tgggtgcaacc 360  
 tcctgtcgtc tcgcatactt taaaaagga acctcacgtt cccacggaag aactatttcc 420  
 ttctctggat ggttgaggng atgaatggtg ag 452

<210> 37636  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-032-Q1-K1-G10

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 agataatacg ttgtgtatag gtgtgtttta tatgaaaatt gttgtcaatt ggttgaagag 180  
 aaacttgtgt cattcttttg tagttaatcg actagcgaac tatatgctat attcgttcct 240  
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<210> 37637  
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<400> 37637

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tgtcatgcc a gcgggtggcgc cacggcccg cgcggccaag gatgcagcct ccaactaggt 180  
tcgtttgcc a ccacaaggcg catactgccg gccttgggtt ggcaccgcgc gttagatccc 240  
agggccaaact aggttgttct ctaattccta atttcttggc cttttctctt gcaactctccg 300  
ccatttgagc tgcgcctcg gttggtttag cttgccggcg tggacagact ggcagatctg 360  
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<210> 37638

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-G12

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gactacatcc tgggcgtgcg cgcggccttc ggcgggcggg ggctctgcgg cctctgctcc 180  
gaggcgggtg gggacgaggg ggtcaggggc acgacggcga gaggccccgc cgacgacgcc 240  
gcggggctgg aggacgcgct ccgggaccac atggccttct gcggcaagtg caggctgagc 300  
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<210> 37639

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-G2

<400> 37639

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aggctctact gttgaactac aacgacctgt ccgggcaact tctgcagat cttggcttct 180  
ccaaactgag cttactcgcc ctggccaaca acaggctaac aggcccaatc ccgtcatcag 240

tagcgcaact gaaagactcc cttctcgagg ttctcctact gaacaaccag ctctccgggt 300  
gtctcgcccc cgagctcggc atgctcgcca aggcggcggt cattgacgcc ggcatgaacc 360  
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<210> 37640

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-G3

<400> 37640

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tgattatact gtccctgtct atcggacttt attacgcttc attaagttag gctgattact 180  
gcttaacggg cgaaaaaagc cctgaccaac acaagctaac aggcccaatc ccgacatcag 240  
tagcacaact ggggcact 258

<210> 37641

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-G4

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tcctctcgcg gcagcacctt gccgcgctcc gtcgatctgc accctttgcg tgcgtgtcca 180  
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cagcgggaagt gcagaatttt gtgcagggca gctggacagc atctgctaac tggaactgga 300  
tagtcgatcc cctgaacggg gataaattca tcaaagttgc tgaggttcag ggaacagaaa 360  
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aagctccaga gaggtacctc atgtatggag atatata 457

<210> 37642



<211> 302  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-032-Q1-K1-G5  
  
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 cgaccgtagg cacctacacc tattggctcg tgacctcggg tacgggctgg acctaatacag 180  
 caaggtgcac gggcttgata aagccgccga gtacttcggg atggtaccca agcagctgac 240  
 gaagccgcag tgctacggct acctactgaa atgctatgtg gaggcgaaag ccgttgacaa 300  
 gg 302

<210> 37643  
 <211> 422  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-032-Q1-K1-G6  
  
 <400> 37643  
  
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 agatcgtgcc catcaacttc gccaccgtcg agcacaagag ccccgagcac ctcgttcgca 240  
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 caatctgcaa gtacgtgct cgcaaaaaca agccagagct gttgaaggaa ggaaacctcg 360  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-032-Q1-K1-G7

<400> 37644

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tgatgtcgtg gaacgtgact aggtgcgcat cggcgtgga ggaggctggc tccgactacg 180

agatcgtgcc catcaacttc gccaccgtcg atcacaagag ccccgagcac ctagttcgca 240

accggtttgg tcaggttcca gctctgcagg atggtgactt gtacctcttc gaatcacgag 300

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a 361

<210> 37645

<211> 313

<212> DNA

<213> Zea mays

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<400> 37645

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atgtcatgct actgcatcat ccataacttg cagacctact tcgagagcag cctcaagacc 180

atggttctta ctgtgcatac caccacggcc agcaccaccg gtttcgaggc tggcacccgac 240

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atctgcaact gat 313

<210> 37646

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-G9

<400> 37646

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ccgacgccga cgccctagct cacgtcttcg tcggtccctt cccagtcttc gtcgggtact 120

tcgacgacta cgagaacaaa cgaggaattc aaggatacac tcgctggact gaagaataga 180

gaaacatgtc tgatggaggt gcgaaagatt tttaccgggc gaaaaagaaa ggaggcctgg 240  
 agaaaacagg ttgatactga cagaacaag 269

<210> 37647  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-032-Q1-K1-F4  
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 agtggaagga ccggcattcc cgtgacttcg ctgaaagtcg gtgatgaagt tctggtgagg 180  
 aaacagggcg ccgtccgtca cactgggata gagattcagg agtttattgt tgagagatga 240  
 aaatggaaac gctgaatgca ccagtttcac gtcgctttga acaaaataat gatgtatgat 300  
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<210> 37648  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-032-Q1-K1-D8  
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 tgcttcgtcg gcggcctcgc ctggggccacg gacgaccact ccctccacaa cgccttcagc 180  
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 ggcttcggct tcgtcacctt ctccacggag gaggcgatgc ggaacgccat cgaaggcatg 300  
 aacggcaagg agctggacgg tcgcaacatc accgtcaacg aggccagtc ccgcggcggc 360  
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<210> 37649  
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<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-032-Q1-K1-D9

<400> 37649

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cctagctgaa caacatgctg actaccttgg ggctcaaata acgcacaggg tagcaccact 180

gcatctgctt tggcaagctg ccaattcata tactccaaca ctttttgaga tgttcagaat 240

ggaatatgaa cagatctcaa agtgtgtggt ctatagttgt ggtgagattg gaccaatata 300

tgagtaccag gtcactgtca aagacaggcc tcanggtcaa tttgttagat ttgactcaac 360

agaatgtatg 370

<210> 37650

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-E1

<400> 37650

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tgctcgagggc gatccgtgca agggcttggg aggtgacccc tgcagctgct ccgtcgagt 180

gcacgtcggg ggcccagggg gccgcgcta cggaggacat cgcgatacgg atgccggctg 240

ctgggggtctc ggagatactg cggatggagc aagagtcatt ggagaacgcc gggcagaact 300

tgcacgatgc gttccaggat ctcaatgccc tcatgagcca cgctaaggag atgatgcagc 360

tagcagaaat actgatgctc aagctattaa tgaactcatc cactgaatc 409

<210> 37651

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-E10

<400> 37651

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 cagggaaacc tacagatgcc accaaccgcg cagccatgtc aagaaaggat tcgtttgggg 120  
 agctgctgac aaacctcccc cgcacgcgct cgctaccaca gttcctcttc aagataccag 180  
 aggggtactga gaactgaacg tggaagttaa gacctcacac cttcccttg gaataggtag 240  
 tttgctgtaa gcctgtaaag attgtatcca agcaataaga aagcccctta tcacctctc 300  
 ggaggcgtgt tccccgtct gtaaatttga cacccggtag gtgcttcagg tgtatggttt 360  
 tgcaatcat gggtagt 377

<210> 37652  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-032-Q1-K1-E11  
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 cgagttccgg gtggagatcg acatcctgag caggctagac caccccaacc tggtcacgct 180  
 catcggctac tgcgccgacg gcaagcaccg gttcgtggtg tacgagtaca tgcccagggg 240  
 caacctccag gacatcctca acggcattgg ggaggtagg atggactggc cgctgcgcct 300  
 gcggatcgcg ctggggagcgg cgcgggcgct ggctacctg cactccagca cggccgctcg 360  
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 ggcaaa 426

<210> 37653  
 <211> 409  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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acaatatcac tgttgacaaa tgcactaagt ttggaattgt attcaaggat gttgtagcag 120  
cttttgagat tgtcaactgc aatggcgttg aagtccaatg tcagggtagc tcaccgacaa 180  
tatcaatcga caacacatct ggatgtcaat tatacttaag caaagattcg ctgggagctt 240  
caattacttc tgccaaatct agcgaaatca atgtgatggg tccaagtggg ggcgctgatg 300  
gtgattgggt ggagcatgca ttgcctcaac agtacatnca tagtttcaag gatggggcag 360  
tcaccacttc accagtttca cacttangag cgtgaataca attgttact 409

<210> 37654

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-E2

<400> 37654

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agctgttaag agctatccgt agcagggctg tcacacgggc agaagaacag ctgcatcgtc 180  
atcaagaacc gccctgcaa aggtgtgcag gtttatacct gaaatactgg atagcatggc 240  
catgccaaat gccactttga tgcatagaca tgttcaacag gaaaaagcta gcagatatcg 300  
gtacttggtc acacaactgc gatatttcgc atgtgaaccg aactgagttc cagctgattg 360  
atatatcaca ggatggattt gggagacgtt ttactcaaa tggcaacact aatgatgatc 420  
ttagactccc aact 434

<210> 37655

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-E3

<400> 37655

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gatcagaggt cataggcatc gccgcgacct gcaaggctga cgttgatgcg ctctccggga 120  
ggctgctcga ggcgatccgt gcaagggtt gagagggtgac ccgtgcagct gctccgtcga 180

gtggcacctc agcggcagag ggggccgcgc ctacggagga catctggata cggatgccgg 240  
ctgctggggc atcggggata ctgaggctgg agcaggagtc atgggataac gccgggcaga 300  
acttgcacga tgcgttgca g gatctcgaag ccgtcacgag cagagctcca gaaatgatgc 360  
acctcgcaga atacatgagg ctcaagctat aatgaac 397

<210> 37656

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-E4

<400> 37656

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ccagtataac acctgaccgg agtagtagga caggtagagc agatcaagaa aagcgggtgag 180  
gagcagcttc cagatgcacc tgagcggcgg tggccggatg ttgccgccga aacagctgct 240  
gaccatcgtc atcatcatct tctccacgct ctcttcatc aagctccttc tctcaccag 300  
ctcgtcgtcc tcgtcagcgg gcttcacett ccgcagcagc ccggcgtggg acgcagacgg 360  
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<210> 37657

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-E5

<400> 37657

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agctcgcgga caagctggaa gcggaggaga aggagaaggt ggaggacgcc ctcaaggacg 180  
cgctggagtg gatggactac aactagtcgg gccataaaga ggacttctag gagaagctca 240  
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<211> 213  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-032-Q1-K1-E7  
  
 <400> 37658  
  
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 aactgtggca tcgtcgtctt gcggctgcga agctgcagcc acctagctcg cgtatggcgg 120  
 cagatgagac aattcataat ctaagtatat agatataaat agtattatta ccgtgccgat 180  
 ataatgcact atctatggac atctgctgca acg 213

<210> 37659  
 <211> 377  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-032-Q1-K1-E9  
  
 <400> 37659  
  
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 tgaggacgac cctggcggga gatgacgagg atcttcgtgc agcgcgggac cgccggctcc 180  
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 gaggagtgc cgggtgcaacc tcaaccacag ctgccggagc tattggccat agatgataca 300  
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 accatctcag agagctc 377

<210> 37660  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-032-Q1-K1-F1  
  
 <400> 37660  
  
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 aataagacga gatggcggac gagcgcttgc ctcaaacggc cggcgcccgc acggctctcg 120



ccagagctac tggatcctcg gcacggaaac ggcgccgga tagctaggtg cgctgtggg 180  
cccggccggc tcgtactta cataggcgca cgcaccccc gcctggtgcg tcgtcgatcg 240  
ctgctttgct ggcgcgcggc ggccctgtgg cacagtagag gtctgctgag gacgacgacc 300  
ggaggcgtgc tgcgtggatg gtcctcatgg ccgggatgct ccccggcgtg gaggcgcgcg 360  
ggcggcggct ggtccggcag ggcggggcgg tgatgggagc ggaggc 406

<210> 37661  
<211> 121  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-F10

<400> 37661

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c 121

<210> 37662  
<211> 363  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-F2

<400> 37662

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tcgccagagc tactggatcc tcggcacgga aacgcgcccc cgatagctag gtgcgcctgt 180  
gggcccggtc ggctcgtcac ttacataggc gcacgcaccc cccgcctggt gcgtcgtcga 240  
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accggaggcg tgctgctggt atggtcctca tggccgggat gctactcggc gtggagtgcg 360  
cgc 363

<210> 37663  
<211> 159  
<212> DNA

<213> Zea mays  
 <223> Clone ID: LIB3069-032-Q1-K1-F3  
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<210> 37664  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-D7  
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 cgatctgctg ctgagtttta tgttccggat cctaacccca actacgtcaa tagattgtac 180  
 gtcaaccacc ctgcagatag atttagacag tatgggctct gggaacgata cgcggaacta 240  
 taccctgaca gtgacctggt atacacagtt ggccaaagtg actatagcac ggattgggtc 300  
 tatgctcaag ttaacaggaa aattgatgac aacacttacc agtcaacaac atggtaaadc 360  
 aagttcgatc ttgacagtgt cagcccaagc agcacctaca agttcatggt ggctctggcg 420  
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<210> 37665  
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 <212> DNA  
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<223> Clone ID: LIB3069-032-Q1-K1-C12  
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 gtgtggaggg tagctgaagc tgggtgctcg tggaatggtc aggagccatg gtgagggggc 180

gggtggagct gatgcggttc gagaacaaca tctaccgcca ggttacctta cacaagc 237

<210> 37666

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<212> DNA

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<223> Clone ID: LIB3069-032-Q1-K1-C2

<400> 37666

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ttatccattt ggccttgga gacgcaggct ttcagtagag tggtcacggg gtgatcaagc 180  
tggtagacgt gatggcaaca aaccagaagc aaatactaag ccaacaagga cactgtttgt 240  
cattaacttt gatccaatga acacaagagt cagtgcacatc gaaaggcact tcacaccatt 300  
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<210> 37667

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-C3

<400> 37667

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atgattccag gatatatggt cgatgtggtc ttggtaatgg tatggataac aggtacaggc 180  
ccagggcatg tagtggatac tatggttatg gcaatgagag tcaggatgga acaattgagt 240  
taaacagagg tcctagatct ggccggttca agaaccagaa attgtacggt catactgtca 300  
ctattgctgc gaaagggcag tctctccctt ctagtgaaag caagaatgat agtgctgtgc 360  
ctgatagagc aaagtacaat agagatgact tccctgttca gtacgatgct gcaaagttct 420  
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<210> 37668

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-C4

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cgctcctcct actcccagcc gcagctggtc gggcgggcgg cggtcctggc agcggcgctg 180

ctgctgctgg cggcggcggc cgggacggcg tggcgggcgg tgagctgccg cgaggtgacg 240

tcgctcgggtg cgccgtgcct cgggtacgcg atgggcagcg cggcgtcgcc ctccgcggcg 300

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<210> 37669

<211> 453

<212> DNA

<213> Zea mays

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ccacttcgaa tcgaaggccg actccggagc gtccaagacc taccgcgacg aggctggcac 120

cgtccgtaag aacgggttca tcgtcatcaa gaaccggccc tgcaagggtg tggaggtttc 180

tacctcaaag actggtaagc atggccatgc caaatgccac tttgttgcca tagacatatt 240

caacgggaaa aagctcgaag atattgttcc ttcgtcacac aactgtgata ttccgcattg 300

gaaccgtact gagtaccagc tgattgatat atcagaggat ggatttgtga gccttcttac 360

ttcagatggc aacactaagg atgatcttag actcccaact gatgagactc ttgtggccca 420

gatcaaggaa gggttcgaaa gcggcaagga tct 453

<210> 37670

<211> 401

<212> DNA

<213> Zea mays

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<400> 37670

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cgaaccctaa tggactgatc atgaagtact ggctgatgtg ctgcaggcag tgcttccgca 180  
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aatgccatct cttggacagt gtaccacagg cgatgccaca gttataatta ctgtcattta 300  
gatgctccct tcagaactct gctattgaag tccgtcatgt tcgtgatgga taactgaagc 360  
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<210> 37671

<211> 452

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-032-Q1-K1-C7

<400> 37671

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ctgaggcacc tgctgggtgg attccaggaa cccgagcacg aagttgacag gtgagttctc 180  
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gcgagctgag tcccttgagg atgccgtcaa gaaaccgct ggagaggagg gcgatgagat 300  
gagggatgct ggccgcgggtg atggactact tcagctcctg ctggggcccg cgatcgggcg 360  
ccgggcaccg gtgcaagggc tccgacgccg tcggccggca ggacggtctn ctctggtaca 420  
aggacgcccg ccaggtcgtc actggggagt tc 452

<210> 37672

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-032-Q1-K1-C8

<400> 37672

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 ggctgagcag aagccccggg aaacaaaaag gaaggtgaag agcagcaaac cggcggcggc 240  
 ggccaaaaag tgacgtacag tacagtacgt gtggagtgtat atggagcttc ccatgcatga 300  
 gtgaatccat gccatgttat gaatctagtc cttcctttct tgtatcttcc atgtgacgcy 360  
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 cttcggcatc aaacagggga tgcagtggcc ggctattctc caggccctcg ccttcgcccc 180  
 tggcggcccc ccgtcgttcc ggctcaccgg cgtcggggcg ccgcagtccg accagaccga 240  
 cgccttgacg caggtgggct ggaaacttgc ccagatcgcy cacaccattc gcgtggactt 300  
 tcagtaccgt ggtctcgctc cgggcacgct cggcgacctg gagccgttca tgettgcacc 360  
 ggacggcgat gacaccga 378

<210> 37674  
 <211> 285  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 tcaagtgaag cttttgtgat gaaccatgaa cttttgagaa aactatgtat ggagcatcag 180

catatgtata cttgtgtgcc tccaaaggta gaaccctacg gcagaagaat gtcgtgtttg 240  
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<210> 37675  
 <211> 331  
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 <213> Zea mays  
 <223> Clone ID: LIB3069-032-Q1-K1-D11  
 <400> 37675

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 ctagacgaag tgatcactag tgggtgcatg atctacttct ttattatgtg ccagtctgat 180  
 gcatgacaca cacgtagcta ggacatttct gctacgacga cgactgcatg ctgctgatgg 240  
 ccacgtacgc tgccatccaa cgagcgagct acctccacta tgggtacatc gatcaattga 300  
 tcttgggtcta cgtttactgt ggcgccgac c 331

<210> 37676  
 <211> 232  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-032-Q1-K1-D12  
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 tagaccaagc agatcactag tgcatgcatg atccactact tgattatggg ccagtccgat 180  
 gcatgacaca cacctagcta ggacatctat ggtactacga caactgcatg ct 232

<210> 37677  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-032-Q1-K1-D2  
 <400> 37677

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cgttcgcggc gctgtgcggc gtagtaccgg gcgtaatcgg ctactgcgtg atgcagctta 180  
ccggcttccg caacgagcag ctcgaggccc accttcgctt cacggtcctg accgagacca 240  
cgatgattgg gctagtgaac agggagagggc tggcggagtt tcttggctag ctgcaacgga 300  
aagaggacac gaacgac 317

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<211> 440  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-D3

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gctgtattct aacacgaaaa ccaacttccg tgaggttgct attaaagggt tctgggacat 180  
gtatgacca tagggctact ccctgtgggt ctgtgactac aagtacaatg acgagaacac 240  
agtgtcgttt gtgactatga acaaggttgg tggcttctcg cagcggatgg atctgtgccg 300  
caaatacgcc tttggcaaga tgcttgccgt tggctctgag cccctttca aggtcaaggg 360  
gctctggctc ttccgtggcc ccgaaatccc caagtttgtc atggatgagg tctatgacat 420  
ggagctctat gagtggacca 440

<210> 37679  
<211> 365  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-D4

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gttgagtacc gctgcttcgt cggcggcctc gcctgggcca cggacgacca ctccctacac 180



aacgccttca gcacctacgg cgaggctcctc gagtccaaga tcctcctcga tcgggagacg 240  
cagagggtccc gcggcttcgg ctctcgtcacc ttctccacgg aggaggcgat gcggaacgcc 300  
atcgaggggca tgaacggcaa ggagctggac ggccgcaaca tcaccgtcaa cgaggcccaa 360  
tcccg 365

<210> 37680  
<211> 428  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-032-Q1-K1-D5  
<400> 37680

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agaaatctat tatggacata tatcgctgta aagggatttt atatatccat gattcagacc 180  
aagttcatac attacaggca gtgagggagg tctatgaagt tgtgccggct cgaaaatggg 240  
ctgagacaga gtctcgcattg aacaagatag ttgtcatagg ccgcaatctg gatatcaatg 300  
tacttcaaga ttcttttagt gggtgcaaga gctgataatg agtatctgtt tgcttgcac 360  
aatgttagtt ggccattttt ctgtgaagta cctctgtgca agtgaatact gaaatggacg 420  
agaatctt 428

<210> 37681  
<211> 354  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-032-Q1-K1-D6  
<400> 37681

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cgtgccaccg caaggggaaa tcaacgaaga ggggtgtctat ggtcaggggc ctgatcagag 180  
aggttgctgg gtttgctcct tatgagaagc gtatcactga gcttctgaag gttggcaagg 240  
acaagcgtgc cctgaagctt gctcagagaa agcttggaac tcacaagagg gcatagaaga 300

agagagagga gatggcggac gtcctaagaa gatgaagtcg actgttacgc acac 354

<210> 37682

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-C11

<400> 37682

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ctcctttacc cactggctg gcgagcagca aactccaggt gcagagcgga caagttcctc 120

acgagcgggt aattctacct agatgatgcg ggatatggag caaaactggg attcctgcct 180

gctttccgtg gtgtgagata ccatataaac caatggggca ataatcccgt acagaacgag 240

acagagttgg ttaatctaag gcactcatct cttcgtgtca cagttgagcg tgcattcggg 300

tcactgaaga gaagattcaa gatttttagat gatgcatctg ctttcttgca ttttacaaca 360

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-A6

<400> 37683

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tgtgctctac tatgagccat gactggtttag cagctacata gagtatatac atactagtga 120

cgtcatttag tgagcgacgt gatgattaca gtcgtattat gctataaatc cactatatca 180

ccatggcagg atgagtgtgc taatgtataa ctacccatca tgggccagtc ggtatatat 239

<210> 37684

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-A8

<400> 37684

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 agaccatggc ggaccagctc actgacgacc aaatcgccga gttcaaggag gccttcagcc 180  
 tcttcgataa ggacggcgac ggttgcatca caaccaagga gcttggaact gtcatgcgtt 240  
 cactgggtca gaaccaacg gaggtgaac tccaggacat gatcaatgag gtggatgccg 300  
 acggcaatgg cagcatcgac ttccccgagc tcctcaacct gatggcccg atgatgaagg 360  
 acaccgactc cgaggaggag ctcaaggagg cgttcagggt gttcgacatg gaccagaacg 420  
 gcttcatctc tgacgcggag ctccgcacg tg 452

<210> 37685  
 <211> 286  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-032-Q1-K1-A9  
 <400> 37685

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 ttctccgtcc aagcctatga ggtgctccag ctggacaaac ctagacgcc tacggcgtca 120  
 tggcgagcag taacgactca caacgacaca tttcacgtat cgacgacgtc atctacaaag 180  
 ttcgagagga ttgaatcacc tacggaatct ggaacgccag gctaaacgag gtccaagctc 240  
 attgggagat gaaaaaggct caatgtggcc caaacattgg gaacat 286

<210> 37686  
 <211> 396  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-032-Q1-K1-B1  
 <400> 37686

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 caggatgtta actgaatagc gcaccagatc gagagcgagc tgtagctaca agatctccag 180  
 agaatagagg acatgccatc gacacatgtt aaccgtatga tagcaatgga ccctgatggg 240

ggtacccgac atcgacacaa gatactgcag gtacatacac ttcaacaaga agcatgcagg 300  
 ctagaaccac gtacacagcg cgcattggtga atacatgttc atggactgat gatgtcatgt 360  
 tgatttcaat tgcgctgaaa acgttaccta ctacga 396

<210> 37687

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-B10

<400> 37687

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 tgatgatcac aacagtggac tatttgaccc gtcgctagat gggctgtcag gtagtctcat 180  
 acgcaacgcy gtgagatcac ttggatccgt tagaagaccg ccgagcacac aatgaccgct 240  
 atcacacaga ccattaacg gatcatgtag atctaattgtc gacagaccac acagacacat 300  
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<210> 37688

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-B11

<400> 37688

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 acgacaagtc ctctgtcaca gacattgccc tctccagcaa ccatgaagag tccctgtgtt 180  
 taggggggca gcccaggagc atcatcagct tcagcgaaga gtccccagc acgaagctac 240  
 agatctgac gtgcccagtg ttcatagatt tgtccaggct gaccgatgca gaaaaccata 300  
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<210> 37689  
 <211> 372  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-032-Q1-K1-B12  
  
 <400> 37689  
  
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 tcacatcgta gctacgtggc gcaacctgcg actttatatg atacagcact cgcccattat 180  
 tgaattttgc agaagcgaac tctgtagacc acgcaaagaa cagtcgtggg cagtaacaat 240  
 cgtcgtctgt tggtagactg gccaaaaacc gcgagcatga tgctgcagca tgtagtgttt 300  
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 ccatgcttgg gc 372

<210> 37690  
 <211> 457  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-032-Q1-K1-B2  
  
 <400> 37690  
  
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 aaggtgatgg atatgggctt catgaagcca acgatggagg tcttcttgcg gcagtcatgg 180  
 ctgctggcctt taaaggtgaa ctcaagtcgg tccaacctgg agtttcgatg gcaatttcac 240  
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 ttcgagggct gtgtcggagg tgctgccttc ctgaaacaat tctaagatct atgcaggcat 360  
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<210> 37691  
 <211> 427  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-B3

<400> 37691

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cgaggggtcg cggccccgcg gggcgccagg gcggcctggg gcagagcatc gcaggcatcg 180  
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cggaccccg gatgctcatg tgcaacctct tccagaaggc cgagccaatg gatatgtgga 300  
tgtatttgct agagaacgag aagttcaacg attttgctaa tgaggatgca cttatttggc 360  
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catacta 427

<210> 37692

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-B4

<400> 37692

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taggcgaccc actcctaaga aggttacttc tcaggttcat cttctgccga gcaactcatt 180  
ccctgttcaa accaacaac cataagacag agttcctgcc gacctgcatg cctcctttgc 240  
ctgagtctgt tgatgcagag agcatgctct cccaaagctg tgtgctgcga gtcgcatcat 300  
tctttggcgc tgccagtcag ttctcatttg ctgagggttac cacatggcct gatgttgacc 360  
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<210> 37693

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-B5

<400> 37693

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gagctcctga gctcggcccc cacgcggacg ctcaggagca gctgtgacta ctacgtaagg 180  
acgcaggagt ccataaggct ggctccggg atcacatcac ggacatcagc accggcgagc 240  
acgagcacac gatggcgagc acgcagcaac gacagacgcc agttacacat actcaaacat 300  
aaagcac 307

<210> 37694

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-B6

<400> 37694

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aaaaggttgg agaaaagcca cttttggcac gttcaacctt catacaggca gcccgttaata 180  
atgtacttct agctgacatc gctcttctat atgcaatcaa caattaccta aaattcatca 240  
tgcagttgta cttcaatcct gcaactgtga aaatgctaag taacctaaag gtactgggta 300  
tagctattct tctgaaattt ataatgagaa ggagattctc agctattcag tgggaagctc 360  
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<211> 460

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 37695

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tcctgggcgc cgaccgcgcg ccgggtttcg cggcgtggct gctcggcttg cggcgccgca 180

tccacgagcg ccccgagctc gccttccagg agcaccgcac cagcgagctc gtccgcgacg 240  
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ccatcgccgg cggcagcgat ggccccgtcg tcgagctccg agccgacatg gacgcgctac 360  
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<210> 37696  
<211> 424  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-B8

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aagaggtctt ccctcaaatt gcagctgacg aacagctcta tgcaatgggc cttccaggtt 300  
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<210> 37697  
<211> 399  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-B9

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cactcgatcat ggcgtcgggtg aagcggcttc ggggtgacagg gaaggacaag atcgtgcggt 180  
ggtgcgccgg gaagcaacac ttgctcgcca agaagaacac caggcgcaag aagagactct 240



ccaagatggc ctatcgttgg aatgaaggg acacgtcggc cctctgtcca acgagaatag 300  
 cacttgcttt atgctaatat tgccgctgga caaacgaact ctgtgctttt gtgtgaaagc 360  
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<210> 37698

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-C1

<400> 37698

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 agaactcgtc gagaaagaca tcttgacacg ccgaggagaa accacaatgc aatgggagct 180  
 taaatggtgg tggcggctct gccgatgaga agtcaactgt aggtatggag caacacaatg 240  
 gtgttcagaa gaatgttggc agtagcaagg tccagccaca tggacatgca actgaataga 300  
 gtgggactta tagtacatag acaacagaaa actgaagaga cgaggagtgt aat 353

<210> 37699

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-C10

<400> 37699

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 tgagctctac ttcaatatct acgtcaatgg tgatcttgca gtctaggatt tcgatctctc 180  
 cagtgcaact ggattcttgg cctatcctta ttacattgac tttatcgtcg atgtgaagga 240  
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<210> 37700

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-A5

<400> 37700

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ggtgctctac tcatctacat tattattaca tgcctctaaa ggtgtatctt cagaagttca 180  
catcgaccgt atttgcttac tctagccata cttacccatc atgggtccatg gggcgtgtat 240  
attatcatgc catcttcaaa gaatggcatc aatgctacaa aaatgaatga gaaatc 296

<210> 37701

<211> 370

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-031-Q1-K1-G5

<400> 37701

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agctctggag ccgtttgtca aatggctcga ggaggctgan gaggaagaat aagctcttga 180  
tttgagatt ggccgaatgt gacgaattat ggttctcgaa aatattacct tttcttattt 240  
cgaaagctat gaaagggtga ggagttatgg ttgctgctag ttattgccga gtttggtact 300  
ggcgatagat ttatgttatg ctngttangc acttggctct cagctgcagt atgttgctgt 360  
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<210> 37702

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-G6

<400> 37702

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aagctctgga gccgtttgtc aaatggctcg aggaggctga ggaggaagaa taagctcttg 180  
 atttggagat tggccgaatg tgacgaatta tggttctcga aaatattacc ttttcttatt 240  
 tcgaaagcta tgaaaggttg aggagttata gttgctgcta gttattgccg agtttggttac 300  
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<210> 37703

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-G8

<400> 37703

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 ctataaattt tttgagaaag aggtccctgt tgatgctgtc ttccagaagg atgagatgat 180  
 tgacatcatt ggtgtgacca aaggtaaagg ttatgagggg gtggtcactc gttgggggtg 240  
 caccgcctt tcccgcaaaa cccacagggg tctccgcaag gttgcttgga tcggtgcatg 300  
 gcatccggct aggggtctctg ata 323

<210> 37704

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-G9

<400> 37704

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 caagtgtggc gtctctttca acgacgaccg gtgtgcaa atctttgaag cactagtgtg 180  
 caccttgagg gccgccaaga agaggaagat cttgacctac gaaggcgagc tgcttctgca 240  
 aggtgtccat gacaacgtgg agataaccct gttgccccca cctgcagttg ctgccgcttg 300  
 aaacgaagag caccaccaag ttctcgattc catacaactc ggatgcttgt attctgccgt 360  
 gcctatatta gattctctc 379

<210> 37705  
<211> 369  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 37705

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tcattactga gtttttcaag gagtaccttg aggaaaacag cttggatgat ttgattgcac 180  
ttttgaagaa aggcaaatg gaggacaatc tgttggactt cttcccatca gctaagagat 240  
cttctgaggg tttatctgag catttcacca aagaaggctt gactagcctt gttgagtaca 300  
acgaanagaa gatgtttgag gttaaaactta aggagataaa gtcaacactg actgctatga 360  
taaattgatg 369

<210> 37706  
<211> 231  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-H11

<400> 37706

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atacagttta caattggaca cacccttgca aacacacacc tttttcaacc aatggatttg 180  
gcaccagagg ggcccctaga ccctctaaaa aacagggagg atcatggttt t 231

<210> 37707  
<211> 168  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1<sup>\*</sup>-H12

<400> 37707

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gaagaccaca atctgagata tgaacgcagc actgctatgt aatattgtac tgcactcagc 120  
agaatgttgg aagaatactt ttcattaccg actcgtttgg atcattgg 168

<210> 37708  
<211> 311  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-031-Q1-K1-H2

<400> 37708

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agcgggagcc ctccgtgttc tccaagatca ccaggttcga ggaggagctt cgcgcggtgc 180  
tgccccagga ggtggaggcc gccgcgtgg cggtcgccga gggcacgcnc cccgtggcga 240  
accggatcgc ggacagccgg tcgttccgc tgtaccgctt cgtgcgccag gagctcggct 300  
gcgtgttcct g 311

<210> 37709  
<211> 374  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-H3

<400> 37709

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atggcggaga tagacctggg ttgctgggtt ctgacccgga gagcattaac cggactggag 180  
tttcaagggtg gcagcgggtt ccttcagctc ctaagattag atatggtaac tgtgctgtgc 240  
aacttctctg gcaaattagt agtcacggag atctgaatgc aacttcttgg attcattgaa 300  
ttgaaatact ataattctgt ggcaagttac tccctttgct tttgcctttg aattgattag 360  
ttagagaaa gata 374

<210> 37710

<211> 213  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-031-Q1-K1-H5  
  
 <400> 37710  
  
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 ggctaattac taacaatgggt aaaagaaaac aactactatc aaagggataa ggtcaaagaa 120  
 tcattactga actatttcaa gagaagcact tctggaaaac acattgaatt acttgattgg 180  
 actttttaaaa aaaggcttcc cggttgatca aac 213

<210> 37711  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-031-Q1-K1-H6  
  
 <400> 37711  
  
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 ttctttcaaa ttgcccgatg taacctgtca cagctcaatg ccaatgtact tcaatctgtc 120  
 taaggcgtaa atgtatggat catccttaaa atctggggtg acaatcatag gtgcctacca 180  
 tttaccctgg tagttaggac tcttgatttt ctt 213

<210> 37712  
 <211> 309  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-031-Q1-K1-H7  
  
 <400> 37712  
  
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 atgactacag ccatcaaagc ccacagcctg ctctcaaagc agctgcctat ggcgcttctc 120  
 cttcaacata ctctgttcaa gcctatacac aacaaagcta cacacaacct gcagcaattc 180  
 cggcagcacc agtgccagca gtggtaccag cacctacacc ggcgtcagct taccctcagc 240  
 aacctggggc agcttcctaa ccttattatg gaacaaccta ctactgacaa gtagagtaaa 300

tcttcgatg 309

<210> 37713  
<211> 115  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-031-Q1-K1-H8  
  
<400> 37713

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tcattaaata tttatcctga gtgaaaattt tcacaccaga agagtnatat tcttt 115

<210> 37714  
<211> 84  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-031-Q1-K1-H9  
  
<400> 37714

cgtacacaac ccttagctac gctccagtgt ctttaccggc cggctgccct gatgccgagc 60

acggcgtttg cagtgggtgga gctt 84

<210> 37715  
<211> 378  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-032-Q1-K1-A1  
  
<400> 37715

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actagaacac agtgcaactt ctatatattc ttatttgtaa cttggatatg ctgcaaaaat 120

aataaatatt actagatcct tgcaaagaga aggagaaata ataaaatcta gaaaagaata 180

atacaaggga gctttgaaat gaaatattat ctatatataa accttctatg gattgaaaag 240

accgtttaat ctggtactgg atttcattat atttgattca gtcctcagt gcaggatatgt 300

actgacttca gtatcatgtt tattttatgt tctgaagtac aaatgccttt gtagggccat 360

aaatactttg cttttact 378

<210> 37716  
 <211> 345  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-032-Q1-K1-A10  
  
 <400> 37716  
  
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 tgataagctg ctggagacgc tagaagagtt catgagggac cgggcaaaga ggctaagaa 180  
 cccaccacgg gagcctgaac ctgagcctgg taaagaagaa cctgagccgg atattaacca 240  
 gctcaaagcg cttacaggac cagaagatta taaggagcct gaacctgttt aagtcgaaga 300  
 agaggtgaag cccgaaccaa cccacagtc acaaggggac ttggt 345

<210> 37717  
 <211> 387  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-032-Q1-K1-A11  
  
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 tctggccgtc ggcttcccc tcgcggaagg taaatcgtgc acgaacgcgt tgcctggatt 180  
 gacctcacac acggagcgcg ctgaggctca tttgcaggca gcggcgccgg ctacggtgct 240  
 ccagcccatg attcaccgac accgacatgg tcacgagcag gaccttacct cgacggacga 300  
 atacacctgg atgtagctca tgccacaccc ggcgcttcag ttcgaggagg cgttcgactg 360  
 gcttatgctc taccgtgagc tacgggg 387

<210> 37718  
 <211> 227  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-032-Q1-K1-A12



<400> 37718

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tgcgggtccg atcgtggtec tgatgcttct tgccgcccgc tttccgctca cagaaggtaa 180  
atcgtgcacg aacgcgtatc cggggattga ccttgccacac ggagcgc 227

<210> 37719

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-G4

<400> 37719

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atgggagtaa tatgtgcaca cactcatggc aagctctatt atgacgaatt actgagcctg 120  
cgctctaate aatcgaccgc aagacgctca gcctatgatg actcccttgc ggcttgacct 180  
tacatatacc tacagcccaa tggacattca cgagggttgc cactactctt a 231

<210> 37720

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-A2

<400> 37720

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tggaaagtcg cggagctcac agggctgtct ggagaaggga gaaggcgca ggactttgtc 180  
tgtaccttgg cgccgaggat caggcggtct gatgatagag ctcaagcgag ggctaagcaa 240  
gcaccggtta ttcttttcag ttgggtttat gaccgcaagg tgcagcttta atcaagaacg 300  
ctaggcaatg tgggcatgta ctacgtatat cattttcagt cctgggggttc tctataagaa 360  
acagtctcta ggttatctag catggtagaa ttcaactact cgtggatctc actcgggtgca 420  
aagtattgca aagtacgcta tcttggtgta ccgtgc 456

<210> 37721  
<211> 337  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-A3

<400> 37721

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acttcaccag ccgagtagct aaaactgatt cctaggaaaa tgctgatgca gctgaagttg 180  
gtgaatgcgc tgatctaggt attgaggctg atgatacaca gagttccagc gacggacctt 240  
taagccctgc tactggcgta cagacagtag tatgattccc caaacatgct ggcaaaatag 300  
cactagcacg tgaagaaact gaattactag ttggtct 337

<210> 37722  
<211> 463  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-A4

<400> 37722

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tgttgaggcc actggtgagg atttctctgt tgagccagct gatgagagga ggcctttccg 180  
tgctctcttg gatgttggcc ttattaggac tacaactggg aaccgtgtct ttggtgccct 240  
caaggagct ttggatggtg gcctggatat tctcacagc gagaagaggt ttgctggttt 300  
caagaaggat gacaagcagc tggatgctga tatccatcgc aagtacatct atggtggcca 360  
tgttgctgac tacatgagga acctcgctga agaggagcca gagaagtacc agtctcactt 420  
cagtgagtac attaagaagg ggaatgaagc tgatgacatg gaa 463

<210> 37723  
<211> 380  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-E8

<400> 37723

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tttgacaagc catctgtcag cacttactat tagggaatca aatgatagca ctgtagaagc 180  
gtgtgggcta ccatttgctg aagatctcac tggcattgat tctgtccatc tcgctggaga 240  
gggtcctgat gctgaatcac ttgaaggttc tttaagtgcc gtgcggaaat ccactcaagc 300  
tgcagctcgt atatttcaag ccttcagggt ggagtcattc cacagaaaga aagtcgtgga 360  
atacggagat gacacctgtg 380

<210> 37724

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-F1

<400> 37724

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aaggccctag atgtcatccc actgctgacg ccggagggtcg tcgacaggat cgaggcgggtg 180  
gtccaaagca agcccaaacg caacgtcgag tcatacaggt gaaaattcgg tgttcatccg 240  
acggagttca ggctcctccc acgaaacttc atccatgata cgtgtgtatt ctgggcgtgg 300  
tgctgtgttc acaaacacca gtctgtcagt cctgtgttgt gtattctgct ttccgataca 360  
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<210> 37725

<211> 367

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-031-Q1-K1-F10

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cacaggtcag gaggaaattg aaacagttga tgaaatcctt aaacacagaa caaggggctt 180  
aggcaccaaa atctcagaat taattatatg tcctatztat gcaaactctgc ctaccgagct 240  
tcaagctaag atatttgagc caaccctga ggggtgcccg aaggtgggtc tggccactaa 300  
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taagatc 367

<210> 37726  
<211> 361  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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aaaactgact tctttgttca agtcgattgg tgtaaaggct gtttttgaca caagctcgag 180  
tcgagatcta tctcttattg aagcatgcaa tgaatttggt tcacgggtatc agagaagcca 240  
accatctaga ggccaagaag ctggagccaa tcttccactg atgtcatctg catgtccggg 300  
ttggatatgc tatgctgaaa agactcttgg ttcatacata ttaccttaca tctcatctgt 360  
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<210> 37727  
<211> 189  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-031-Q1-K1-F12

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taccagtcac agagcatcac tagctgcatt ctatgggtctt tctcagtcac aggttctcat 120  
aacactgact tctgtgatca aatcaattgg tgtaaaagct gatcttgaca caagctgcat 180

tcgagatct

189

<210> 37728

<211> 214

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-F2

<400> 37728

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agcacggaca ccaccaaata aatccatata tcgcagaaca tgcttgcaact agacatcagt 120

caactcttac taccagagaa tcaaatacata accctgtcta agctccaaag ctaccacaaa 180

ctcaacatct cactatcctt gagactatcc atct 214

<210> 37729

<211> 375

<212> DNA

<213> Zea mays

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cgagggcaca cctgcgggcca agtatctgct cgagtatggc gtggagccca agaacttcag 180

ctcctatggt ggccgcccgc ggaacaatga ggtggtgatg aggggagcgt ttgccaatat 240

gaggatcgtg aataagcttc ttgatggcaa ggctgggtccc tggacgatcc atgttccttc 300

cggggagaag ctctatgttt acgacgcggc aatgaagtac aagtcggaag gtcatgacat 360

ggtcatcatt gctgg 375

<210> 37730

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-F4

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 cggttacgag atgtaggctg aggatggagc gtcgtccac ggcaacacta gactgttttt 180  
 tttaatccgc aggacagggg agagctgata gcttggttagg gtgggtgatac acttttggat 240  
 atgtattgta ctgctgcgtg gttacgtttt ggcgattggg ttgtgtagtg tagatgttac 300  
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<210> 37731  
 <211> 377  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-031-Q1-K1-F5  
 <400> 37731

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 tcaagtggaa ggaccgacat tcccgtgact tcaatgaaag tctgtgatga agttctgggtg 180  
 aggaaacagg gcgccaaccg tcacactggg atagagattc aggagtttat tgttgagaga 240  
 tgaatatgga aactctgaat gcaccagttt tcacgtcatt gcgaacatac taatgatgtt 300  
 tgattgcaac atacatctgt tctgttggtt aagattgtga gattccattg cagcgtaata 360  
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<210> 37732  
 <211> 375  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-031-Q1-K1-F6  
 <400> 37732

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 cagagcatgc tgagccaccg cggcgacagc ggggtgccagg gcgccttcta cacctacgac 180

gccttcacg aggcgcgcag caagttcccc ggcttcggca ccaccggcga cgagcagacg 240  
 cgcaggcggg agctcgccgn cttcttcggc cagacgtccc acgaaaccac cggatggatgg 300  
 gcgactgctc cggatggacc gttgcctgg ggatacttgc cggatgaagga acagaaacag 360  
 acgggcccac cctac 375

<210> 37733  
 <211> 373  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-031-Q1-K1-F7  
 <400> 37733

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 gactgataag aaaggccaga ctgctctaca catggcagta aaaggtacta acccggaagt 300  
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 cgaatccggc gatccagatg ctggccacga agggcagcaa taagcgcacg tctggtctca 180  
 tgtacgagga taccgcagc gtgctcaata tcttacttga gaacgtcatg cgcgacgcca 240  
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 ctaaccatgc acgatcgacc tgtagacgac ggcaccgact ccgtcatcca tgctacattc 240  
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 cactaagatt tggcgcacgc ataacaatgg gtctgttgtg tggccacggg gcacacagct 180  
 tgtctgggtt ggtggagatc agtttgcatt gcagacatct gttccattag agattcctgt 240  
 ggatgggtttt cctgtggaca aagagattga tgttcctggt tgatttgtgg cacctacaag 300  
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 gaagtt 366

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 atgcttcaat tatgtggatg ctagaaaaaa aaaaactaca aaagcaaact gatatatgaa 240  
 agagaacatg acaaacatgg agataaccct gatgccccca cctgctagtg ctgtcgcttg 300  
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<210> 37738

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-G2

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 tgcctgcctc agccgtgacc ccaaggctag gcctctgatg agccagggtg tggagggtgct 180  
 gaagcctctc cagaacctca aggacatggc cagctcttcc tactacttcc agtccatgca 240  
 acatgagcgg cgcacagcac ttgccaaccc atatggcagt caaagcatga aagcgcagag 300  
 cacctttgcg ccggacgggc agcagcccat gaggagcctc tcgtatggcc ctcatgcttc 360  
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<210> 37739

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-G3

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 cggctctaac gattgaccgg aagtcttcca gctgatgtgg cctcccttcc gtctttacgt 180  
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ctcagtgtaa tagatttctc ctacaattcc ttcacaggag aagtacctgc aagtttataa 300  
aacctcactc aggtaaccgt tottaatttg caagataact ctttctctgg atccatccct 360  
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gctgcaagtg ctccacctgt tgagaaacca tctgctgcaa agactgatgc ggccaagcag 240  
gttgctgctg gggttaccag ccaaaccaat aactaccaca gggctgatgg tcagaacact 300  
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<213> Zea mays  
<223> Clone ID: LIB3069-031-Q1-K1-D1  
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ggaggtgggc caacgtgttg tggaaatatt gaagcttttc aacactagga cttgccaaact 180  
tgttctcggt gcacgggcca tgcacgtgctc tggacttaaa tcaattacat ctaagcattt 240  
agctctggcg agtcaaatca ttagttttat acattcttta attccagata tcagacgagt 300  
gctcttcctg aaaataacctg tagcacgcaa acagttgcta atgtctgagc tggatat 357

<210> 37742

<211> 431  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
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 cgtcaccgac actcatcggg gcggcggggc cggttccccg gctagtgggt gggttcggcc 360  
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 <212> DNA  
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 cggattcccc tcgccgctgt ggaaaccctg aacaaagcca gcccgaagat gaacgggtgca 300  
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 <213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-D2

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ggctgatggc aagggaaagtc ggcgcggcca tgcccgggtg ctttcggcag atatgacgag 180  
caacggcagc ggaatggagg ttggtaaatt ctccaagac gatgtttcaa gatgtcctga 240  
gaaaacagtg aacctacagg atctgcagaa cagcttgatt gcactaagg agcttgtaaa 300  
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<210> 37745

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-D3

<400> 37745

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ggctgatggc caaggaagtc tgccgggaca tgccctgtgg ctactgcag atatgacgag 180  
caacggcagc ggaatggacg ttggtaaatt ctgccaagac gatgtttcaa gatgtcctta 240  
taaaacagtg aacctacagg atctgcagaa caccttgatt gcactaaag agcttgtaaa 300  
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<210> 37746

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-D4

<400> 37746

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gcaatggaag gcttgcagag tcaacataat attttgaaga tctattatgt ggtctagctt 180  
 gtttctagga atacagatta agaaccagtg gtagagccct acggcagttg agtcttcttt 240  
 ttgttactca cataagtcaa ctttttttgc tggttccatt gaatagttag gactattttc 300  
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<210> 37747  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-031-Q1-K1-D5  
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 ttggcatgca gtttgtatga agagaattgg aagtctgaaa cgcgtagatt agacggtagc 180  
 accaagccgc tctagaaaca ttggctgatt gtcagactta cactgctggg tctgtttctg 240  
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<210> 37748  
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<210> 37749  
 <211> 367  
 <212> DNA  
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 <223> Clone ID: LIB3069-031-Q1-K1-D7

<400> 37749

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tctcttccga aggcgtcgcg cgcggttggt tgagaggaga ggaggaagat gagggagtgc 180  
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tgctcgagc acggcatcca gcctgatggc caagtgcctg gagataagac cgcgggacat 300  
cacgatgatg ccttcagcac ctttttcagc cagactgggt ctgggaaagc acggtccccg 360  
tgcaatc 367

<210> 37750

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-D9

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catttgattg aggcctgaat atcaatatat cgggtgtgaca tgggtgttgat gttcaggagc 180  
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ctatggcgct accctttttg gacgtttttg gtgcttgtga cctcactgat caatgcgaga 360  
tgtaatcagc tcttgtgctg gagctttcag agtgctgtcg ctgtcactgt cagtgccacg 420  
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<210> 37751

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-E1

<400> 37751

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 gcatgaccct tgacttccac accaacaaga aggtgctgga agaggtctcg atccttccct 240  
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<223> Clone ID: LIB3069-031-Q1-K1-E11

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 acggcgcctg gacgtcggac ctgtcgggtcc aca 333

<210> 37754

<211> 259  
 <212> DNA  
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 <223> Clone ID: LIB3069-031-Q1-K1-E12  
  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-031-Q1-K1-C9  
  
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aaagcatcat gggtattagg atttagattg cttgataaag cagccaagac attgaagttt 180  
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 <212> DNA  
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<223> Clone ID: LIB3069-031-Q1-K1-E3

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<223> Clone ID: LIB3069-031-Q1-K1-B11

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 aaggatcatg aaggcacagg ccctgtagga ctcgagcatg gcgggctaca tgtctagcaa 360

aaagacaatg gagatcaacc caaagaaccc tatcatggat gaactccgca agcgt 415

<210> 37759

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<212> DNA

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aggcagaagt gtctcatgat gttttggatg ccactataat atcatctaat ttttggccac 180

caattcagat agaagacctt gttgttcctg cttcagttga tcagttgcta tcggattacg 240

caaaacgatt tcaccagata aaaactccac gaaagctatt atggaagaaa aatcttgga 300

cagttaagtt agaactgcaa tttgacggaa gaagcgtgca aattactgta gtcctgtgc 360

atgctgcaat cataatgcgg tttcaagaga aa 392

<210> 37760

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<212> DNA

<213> Zea mays

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aaggtaagg gccgccgtgc cggcttcggc aaggctgggg gcacggtggc cgcagcatga 180

cgacgatgct gatttgctga acctacacct agctacctag ctaccaccag cttctcctca 240

actagccagc tgcaagctcc gattattcac ccgtgcaacc atctatatac taaccatgca 300

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<211> 366

<212> DNA  
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 ccctcgaggc tcacctcgcc ggcaaaacct atgtgtctgg tgactccatt actaaggatg 180  
 acattaaggt cttcgccgcg gtgccgtcga agcctggcgc tgagtttcct aatgccgccc 240  
 gctggtaaga gaccgtctct gcggctgtag cctcaagatt ccctggtaag gctggtggtg 300  
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 ttgcgtgcgc gcaggacgcg ctgagacaca aggcattcat ctatcccacg gtgaccgtgg 180  
 aagccctagg agtgcacggg tcgtagttcc tggatgaacgt gttctacgac aagagctgcc 240  
 cggggctgct cgtcagcgtg ctggaggcct tcgacgagct gtggctcacc gtgcttcacg 300  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-031-Q1-K1-B5  
  
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 tcacggggcca tccgctcctg gaccgcgtcg tgcaggtgct ctccggaaac tgccctactg 180  
 gcctcagcat cgcttgggtg aaatgcaacc acaacacgca ccacatcgac tgcaacagcc 240  
 tggaccatga cccggacctt cagcacatgc cgctcttcgc tgtctcccc aagctgttcg 300  
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<210> 37764  
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 <212> DNA  
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 <400> 37764

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 gagcaccaca agaaggccga ggagcaccac aagaaggagg aggggggagca ccacaagaag 180  
 gacggcgggg agcataagga aggcacgtg gagaagatca aggacaagat caccggcgag 240  
 cacggcgaca agtccggcga ccacaaggaa aagaaggaca agaaaaagaa gaaggagaag 300  
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 <213> Zea mays  
 <223> Clone ID: LIB3069-031-Q1-K1-B9  
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 tggatgttga caacctctat gtttcacaca tccatgtgaa tcaggcccag aagcagatgc 180  
 gccgcaccta ccgtgctcac gggcgcatca atgcctacat gtctcagct tgccacattg 240

agctgatctt gtgagagaaa gaagatcctg cgaagaaaga agctgacaac attgtcggat 300  
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ccgtagctct tttat 375

<210> 37766  
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<212> DNA  
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<223> Clone ID: LIB3069-031-Q1-K1-C1  
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aagtccagaa ctacaaaacg aagccatcgt tgatggatgg tttcatacag gtgacattgg 180  
agagatgacc ccagacggga tcttgaaggt gattgacaga aaaaagaaca tatttaagct 240  
gtcacaaggg gagtatgttg cggttgagta cctggagaaa gtgtatggct tccctccact 300  
cgttgaagat atctgggtat acggggacag tttcagatca agtttagttg cagtagtcaa 360  
tccacaccaa gaa 373

<210> 37767  
<211> 344  
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<223> Clone ID: LIB3069-031-Q1-K1-C2  
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ataacgctcc caaagcagag gccgaaaccc gcgacgcgca gcgcagggcc agtggcgacc 180  
tccagctcca gtcagctc cacacgcggg cgccaccaag gagctgagcc gagcccggca 240  
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ttcctcggcc tgctcaagca acccgacgac gccagctccc agtc 344

<210> 37768  
 <211> 324  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-031-Q1-K1-C3  
  
 <400> 37768  
  
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 cccgaataat tcaactgcca cgcccgccat cgccaccact ggcgtcgca gcccgccaat 120  
 aataacgctc ccaaagcaga ggcccaaacc cgcgacgcgc agcgcaaggc cagtggcgac 180  
 ctccagctcc agctccagct ccacacgcgg gcgccaccaa agaactgaac cgagcccggc 240  
 actgtcagcg gccatgtccg cgccgcgtcg ccccatggcc actgcctccc cgtcgctccg 300  
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<210> 37769  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-031-Q1-K1-C4  
  
 <400> 37769  
  
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 agactaaagg gatgggttga ccggaatttg aagcacgaga cctggaatcc aggtgccaac 180  
 agggataatt ctgctgcctc ttacgtggag atgcttcgag ttattggtga aacgttggat 240  
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<210> 37770  
 <211> 364  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-031-Q1-K1-C5  
  
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 ttcaccgtat catgtattca ggtcctgtat gtgaagataa ttgaaatgag tggttatcag 180  
 gcactgctct gggttagata tatcacagtg gctgggtgaat atgagctgag actgatatga 240  
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 ttgctatcga cacagcgaac agttttcatt cggatgttgg cctggaagtc ttctgccgac 360  
 cata 364

<210> 37771  
 <211> 345  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-031-Q1-K1-C7  
 <400> 37771

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 aaccagctct caaaacatgc taaaatgaat caaaaaggac cgtttacatt gcctacgttt 180  
 acagcaaagg acgttttcaa agggaaacca ttttccaac gagccttagc catgatgcag 240  
 gaaaagcttg ccattcttgt cacaaaatgc cctacttaa atctctgcct cattttccgg 300  
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<210> 37772  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-031-Q1-K1-C8  
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 cgtccgtaag aacggcttca tcgtcatcaa gaaccgcccc tgcaaggttg tggaggtttc 180  
 tacctcaaag actggtgaagc atggccatgc caaatgccac tttgttgcca tagacatatt 240  
 caacgggaaa aagctcgaag atattgttcc ttcgtcacac aactgtgata ttccgcatgt 300

gaaccgtact gagtaccagc tgattgatat atcagaggat ggatttgtga gcctttctac 360  
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<210> 37773

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-B10

<400> 37773

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 atgagaaatt caatgagcgc tatcaaagat gagccagaag ggaccattga tccaaccaga 120  
 gttttggaaa aggcttatat tagtacgaaa gcaagggggg catctaccgc gtgtatcatc 180  
 actcttaaag atcaggggat ccatgctgta aatcttgggg atagtgggtt cgtagtagtc 240  
 cgagatggcc gcaactgttct caagtcaccc ttacagcagc atgatttcaa ttttacttat 300  
 cagctcgaga gtggaagtgg cagtgatctt tctagtttcg cacaagtatt tcacttttc 359

<210> 37774

<211> 402

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-030-Q1-K1-H4

<400> 37774

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 cnnggataaa gaaaagganc aacacctatg cacttgagca atttcttgcg ttatcagtga 180  
 agttctgcaa ctcgattggg ttccggatgg cttgcacaat cacccttaag acagcaacga 240  
 acagcaccag atcatggcag gtgcgtggta ctgcatacaa gtggcatcgc tacatcatcg 300  
 gagtgggctg gaagagcttt tgccaggata acagactcaa ggcaggcgac ctgtgcaacc 360  
 ttaacatcat cgagaccacg ctgtggcatg ttactatcac gc 402

<210> 37775



<211> 303  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 37775  
  
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 gggacggcaa gcccgggagg gcgaggaggg ancnaaagca angccaancg ggggagaacc 180  
 agcgagccag cagcagcagc cacgcannca cgccaacaag gcaagggaag ggaagnccga 240  
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 caa 303

<210> 37776  
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 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-030-Q1-K1-H7  
  
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 gaaccnccc gagcacgccc ggcgaagggg ancacgagca ggccggagcc gcgggacagc 120  
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 cgggcggcgc aggagaaccg ggaccagcag gccgcgcagc agcccggggg cgcgggagcg 240  
 ggcgcgagcg acgacggcgg ggaccggcac gggcgagcgg gccccggccc gggcccgggc 300

<210> 37777  
 <211> 311  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-030-Q1-K1-H8  
  
 <400> 37777  
  
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ggactttctcc atcaccttct gatccgtcac tggaaaaacc ctatcagatt gggacatcat 120  
 cttggataaa gaaaaggatc aacacctatg cacttgagca atttcttgcg ttatcagtga 180  
 agttctgcaa ctcgattggg ttccggatgg cttgcacaat cacccttaag acagcaacga 240  
 acagcaccag atcatggcat gtgcgtggga ctgcatacaa agtgcacgc tacatcatcg 300  
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<210> 37778  
 <211> 277  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-H9

<400> 37778

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 aaaaaaaaaa aaaaaaaaaa ataataaaaa aaaaaaaaaa aaaatataat aaaaaaaagg 180  
 ggggactttt taaaagttcc aagtttatac ttcccttatt ttgaaaaatt tatttttttt 240  
 tttgggtcaa aaaaaatttt tttaactgcc tgttttt 277

<210> 37779  
 <211> 364  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-A1

<400> 37779

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 gccgaggagg gccgtgcacg cctcggcgta cgacaagaac ctggaggaac aggtgcgccc 240  
 ggcgttcgtg ccggacgatg tgatcggcag cgccgggagc cccgacaagt actggagccc 300  
 ccaccccaag accggcgtgt tcggcccggc ggcggtggac cccaagctgg cagctggtgg 360  
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<210> 37780  
 <211> 214  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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<210> 37781  
 <211> 404  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-031-Q1-K1-A12  
  
 <400> 37781  
  
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 ctttattagt tttggtgggt ggatacttca atcggtgagc cgaacagaca gttgttttga 240  
 gtatgaattg ctctgcatct gcaaagttgt tgtttgtcat ccgtcgtctc aataaggcga 300  
 agggaagaaa aaaaacgcaa acattaatct atgttaaatt agtgtggcaa aagttgaaac 360  
 aatttttgcc ttttgacctc taattccaaa aaaaaagg gggg 404

<210> 37782  
 <211> 383  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-031-Q1-K1-A2  
  
 <400> 37782  
  
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 ctgagctgca agatatgttt gcaaacacag cctccttgcc ttcagaggta gcaccagcaa 240  
 acccatctgt ggttctccaa cagccagttc ctactaattt ctctctcag gtatctcagc 300  
 cagttgctgg cacattgcat gctgctcta cagcatttgc tccttctcag gctcctgcca 360  
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<210> 37783

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-A4

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 atgaacagac ttattgctta tgtggaagat ctctatgagg atacaaattc ctgcaacatg 240  
 gtcaaggtagc aatgggtttgg caaagctgat gaagttgggtg ttctgttgcc catggatttt 300  
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<210> 37784

<211> 316

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-031-Q1-K1-A5

<400> 37784

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 tccaccagat ccatacacct atcattgagg gctcagttag ctcaccagtt gtttctgctc 180

caagagataa gactccagca ttgaattcac ctgtcattga tgccgaagaa caccaagttc 240  
gcgaatctcc gacttcacca gctggagggtg caagagctgg tgttgctact aanggcaatg 300  
tggttaaccat gggcca 316

<210> 37785

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-A6

<400> 37785

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cctcgccatt tcgggggatt gttaccctgt ccctggaaca cgctgaacac gaagcagctg 180  
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ggcgcgtagg gagccccac actggcaact catccttggc ttatgcgaat tggcggaacac 300  
ccactggttt gggatgatgt gtcggtctgc gccagatgcc ctccactgtc gtcgatgtca 360  
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<210> 37786

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-A7

<400> 37786

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aaaaaaaaaa taataaaaaa aaaaaaaaaa gaacataaaa caaaaaaaaa ggggaacctt 180  
ctaaaagatg caaagctccg atgcgaacaa tgagatgcta acgatgaagc acacgagaac 240  
gtacatgaaa gtaaggagcc ccatactag aaactcatac ttgggaaaac cgaattggca 300  
cccaactaaa gcctttggcg ataaattccc tttttaccag atgccctaaa atggaa 356

<210> 37787

<211> 374  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-031-Q1-K1-A8  
  
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 atatttatcc actaatgcc a ttttgggtcca aatcctttgt gtgtaaaaat gctcctgatt 300  
 accggatgct ccatcttgct aaaagatttc tcgaaatcta gtttgaagat aaccgaccct 360  
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<210> 37788  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-031-Q1-K1-B1  
  
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 ctgttcgccg cgcgcgcggt gccagggccg tgccagatct gcgagatccg cgccgactat 240  
 caccaggtgg atgctctcgt gatctctcgg aggccgcggg gactgagcag cgtctcggcg 300  
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<210> 37789  
 <211> 370  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-030-Q1-K1-H2

<400> 37789

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ggcngcagcn ggcgggcgag ngcgaggagg cggcgggcg gcgcgccgag cggacggagg 180  
cccacggccn ggaggacggc gcaagcagcg acgcgacgcc ggagaagcag accnnncaca 240  
agcccgaggc cgcgggcgac ccggaggccc aggacgcnga gcacaagccc gccgnncacc 300  
aggccgcgaa gccggaagcc acggcgagcc cgaccaccac caccggcacc acggcgggcg 360  
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<210> 37790

<211> 416

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-030-Q1-K1-F12

<400> 37790

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tgtaccgggg gtccatggtc gagtgcgagg ataactggaa ttgccagctc gagaacatta 180  
ccttcaccgc caaggatggg aaggtttcgc agctggagca cgtcttcacg agaggaagca 240  
gagtgagatt tatgattata cctgatatgc tcaagaacgc tcccatgttc aagcgcttgg 300  
aagcgagaat taggggcaaa ggatcagcta ttggagttgg gcgtggacgt gcagttgcaa 360  
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<210> 37791

<211> 100

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-030-Q1-K1-F2

<400> 37791

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<210> 37792

<211> 366

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-030-Q1-K1-F5

<400> 37792

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ggggcggnca cagaggccga caggaagaac gannngncgc cggagaacgn caagacgncc 120

ggcgnanccc gcgacgggga aaagagnaag gcacgagagc agnngccnng aaaggcgacg 180

caaaaggggc aggangaggc gcngacgnac ncgccccggg aagcgccacc gganccccggg 240

agaaggaagg ccaaaggagg gaaaacaaca aagagacca gcagcagccg gctgcagaag 300

cttggaaga gccgggttac caaatcgtt cttcaggaaa tactgagcat caccattgaa 360

gaattt 366

<210> 37793

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-F7

<400> 37793

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tcccctgatt ctctccgcc agctcagctc agtccccgc cgctcctctc cgcgcccctt 120

catccccgat ctcgcatgg gcaccgccac caccaacggc tcggcggagc aggcgtccgc 180

gcccgtgccg gcgctcaagt tcctcatcta cggccgcacg ggctggatcg gggggctgct 240

gggcggtgtg tgcgcggcgc gc 262

<210> 37794

<211> 365

<212> DNA

<213> Zea mays



<223> unsure at all n locations  
<223> Clone ID: LIB3069-030-Q1-K1-F9

<400> 37794

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gactgggtct accggtggcg gccacggtga actgcgcgga caacacgggc gccagaacc 120  
tctacatcat ctccgtcaag ggcataagg gccgnctcaa ccgccttcg tccgcctgtg 180  
tcggcgacat ggtcatggcc accgtaaaga agggaaagcc cgacctcang aagaaagtga 240  
tgcccgccgt catcgtccgc cagcgcaagc cgtggcgctg caaggacggt gtctacatgt 300  
acttcgaaga taatgctgga gtgattgtga atcccaaggg tgagatgaaa ggttctgcaa 360  
tcaact 365

<210> 37795  
<211> 99  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-030-Q1-K1-G1

<400> 37795

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ccttggaag ccaatcgatt tagcaagccc gtactacat 99

<210> 37796  
<211> 401  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 37796

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ggcgcgcagc aaggcgggtg gagcatcatc acccggccca tgttcagag catgctgagc 120  
caccgcggcg acagcgggtg ccaggcgcc ttctacacct acgacgcctt catcgaggcc 180  
gccagcaagt tccccggctt cggcaccacc ggcgacgagc agacgcgcag gcgggagctc 240  
gccgncttct tcggccagac gtcccacgaa accaccggtg gatggcgac tgctccggat 300

ggaccgtttg cctggggata ctgccgggtg aaggaacaga aacagacgga cccaccctac 360  
tatggacgag gacccatata gctaactcat aagtacaact a 401

<210> 37797  
<211> 378  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-030-Q1-K1-G11  
  
<400> 37797

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gcatcgaacc accccggggc gagccgcaag caagcagcca agcagtgtga actgaccgtt 120  
cgttccgtcc aggccaccat ggaagcgccg cgggtaccgg agctcatgga tctggacgcg 180  
cccccttccg tcgcagccga cgccgcagcc ggggcgcggg ttccccctgc cgtcagcgac 240  
aagaagaaag aaagggaaag gggagacact gttacgggcc acatcatctt caccaccatc 300  
ggtgggaaga acggcgagcc gaagcggacc atcagttaca tggcagaacg tgtcgtgggt 360  
acgggctcat ttgggatc 378

<210> 37798  
<211> 363  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-030-Q1-K1-G12  
  
<400> 37798

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ggttccagat gcttttatct catcagtac tgctggggta ataccatctt gtaaagccct 120  
tatctgtgtt cctaattggc tgggtgcaat atgcctcaat aatcaaggac ttgaggctgt 180  
cagggaaact tcagcactgc gatttcttgt agataccttc actagcatga aatacttgat 240  
accaatgaat gaggggtgtg tccttctagc taatgcagtg gaagagcttc ttcgtcatgt 300  
gcaatccctg agaagtattg atgttgacat cattattgaa ataataata gactaagttc 360  
gtc 363

<210> 37799  
 <211> 365  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-030-Q1-K1-G3

<400> 37799

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 gggatgcagg aggaggggtc ccgcggcgag gatgagtgga tcaagtgggc tagaggcaag 180  
 acttggccat cccttggtc atggtcgctg ggttggggcg tctagtgtgg cgcgagctcc 240  
 gtggttctac tgtgggccac accagcgtgg gagctctaac gcgtgggtgga gttgcctctg 300  
 ttgggtgggc gtggtgtgat gttaagaagg tggcagccgg cggcccgtat cggggcggtt 360  
 ggtgg 365

<210> 37800  
 <211> 368  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-G4

<400> 37800

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 gaggagaagg cggagaagac gaccgcaggg aagaagccca aggccgagaa gcggctgccc 180  
 gcgtccaagt cctccggcaa ggagggcggc gagaagaagg ggaagaagaa ggccaagaag 240  
 agcgtggaga cctacaagat ctacatcttc aaggtgctga agcaggtgca ccccgacatc 300  
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 ctggccgg 368

<210> 37801  
 <211> 366  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-G5

<400> 37801

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ggaccggccc gtaattatca ggcactctgct gagtgattct acagatccat ttaaccgctc 120  
ccacctcact caagacatgc tgataccaaa cacggagctc aagttgcaga tcgaggagtt 180  
tgtccgggtcc cagcagtcga gaaagcgaac tgctgcggcg ttgctggaga ttggcgaagc 240  
ggagggtact gatgatatgg ccgaatgaat tgtgccagga gcaagggatg gacacatttt 300  
ttttgtgggg aaagagtgat ggtaattca catgaagtgt atcgggccat ctgtccgtat 360  
aaagtt 366

<210> 37802

<211> 347

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-030-Q1-K1-G7

<400> 37802

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gcggtggtgc tgctggcacc atgtcttctg cgagatcatt catgtcgtcg ttgagtatag 120  
acaggagcat ggcgagcttg gatgggaagc ggccgttcca tttggtaggc accccggtgg 180  
cgagcgaccc agcagatgcg caccgtgcgc ccaaacggcg atgcacgggt agaggggagg 240  
atggaagagg caagtgtgcc actactggca gatgccattg ctcaaagaga atgaaactgc 300  
ggattaagag gtccattaga gtgccagcca ttagcaacaa aatcgct 347

<210> 37803

<211> 320

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-030-Q1-K1-G8

<400> 37803

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gggccccgagc agaggccccc gcaaacgcgc agcgcacaca aacacacacc agcccagcac 120  
 cgagagaaca gccggcggcc ggcgagaaga gccgcggcac gggcgcgggg aaggaccggc 180  
 acaacaccag gancgcccc gagggacgcc ngnaccaagg cgaggacgcg nncaaggcgg 240  
 agaagacagc cggaggcacg gcgaacggcg nccgcggcgc ggacaccgac agcggcgaca 300  
 cccagaagaa agccccggac 320

<210> 37804  
 <211> 345  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-030-Q1-K1-G9  
 <400> 37804

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 gtcgtccgga atgaccagcc gaggtttgag acttgctacc agatcgctct tgcgatcaag 120  
 aaggaagtcg aggatcttga ggctggtggt attcagggtta tccaaatcga cgaggctgca 180  
 ctgagagaag ggctgccgct ccgcaaggct gagcatgcat tctacttgga ctggggctgt 240  
 ccactcttca gaattaccaa ctgcgagatc caggacacca cccagatcca caccacatg 300  
 tgetactcca atttcaacga catcatccac tcatcatcg acatg 345

<210> 37805  
 <211> 179  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-030-Q1-K1-H1  
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 gaccggcacc agngagaaga ggcgggcaaan angggccggc nccggcacgg cccggggggg 120  
 acnacgagca caggcgcan cngannaaca agcncggcgg gagggcgcca gcaagcaac 179

<210> 37806  
 <211> 436  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-H10

<400> 37806

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gcatctcgct cttcaaggct ctgctgcagg tcacccgccc caacgtcgtg gtggagggcc 120  
tcgtcccggg gacgcagagc taccgcagcg tggcgagta ccgcgaggcc gtccgcgtgc 180  
cgggcttctt cgtcgtcggc gtcgagtcgg cgtctactt cgccaactcc atgtacctgg 240  
tggagcgggt catgcgctac ctccgcgacg aggaggagcg cgcgctcaag tccaaccacc 300  
cctccatccg atgcgtcgtc ctgcacatgg ggcgcgtcgc ggcgatcgac acgagcggtc 360  
tagacgcgct gtccgagctc aagaaagtcc tggacaaaag aaacatcgag ctggtgcttg 420  
ccaaccccgt ggggtc 436

<210> 37807

<211> 393

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-030-Q1-K1-H11

<400> 37807

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ggagccgtgc cgcgctcacc atcgtcatg tccaaaccat cggcgtcccg gccatgtatc 120  
aagattgcaa tccgtttccg agcttcgagg aatcgaagat caagagttgg cgaccaagtg 180  
atctggttct tcgagttcta tgaggctgga gatcctgagc atctgtttgg tgaaggttgc 240  
ctttggtgca atctatgctc aagtaaagaa gaaggcgttg aggcgatct ctaagagttc 300  
caggactttt gacgagttcg aggattaggg tagcgaccac ccnactcag ctgcctgtgg 360  
tgggtttatt tacgttggct acgtttctat tct 393

<210> 37808

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-F11

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gtctaactcg atctctggaa gcggctagct gctaacagcc aattaatggc gaagccttcg 120

caggtgctgg tgtcggcgct cgccgcctgg gcgggtggctc tgctgctgct gtgcgccgac 180

gagccagggg gcgccgacgc ggccacggcg tgcgacgccg cgcagctgac cccgtgcgct 240

gacgccatca tcgggagctt cgccgccacc gcggcgctgct gcagcatgct cagggagcag 300

cagccgtgcc tgtgcacgta cgcgcgcgac cccaagctgc agcgctacgt cagc 354

<210> 37809

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-030-Q1-K1-H12

<400> 37809

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ctctgtcgtg acgtgaaatg ccagcgcgca gcttcttgat ccgttcggcg tgatcccgtg 120

gaccggactt ggggttgggg gaggccctct gtctccatgg atgaggcagc agggctgctg 180

ttgcaagaag aggggtggagg tggggaccaa gaagctctcc tccttcact tccacaggat 240

gttggccttt acacaggtga tggatctgtt gatgtcaaag ggcgcctgc gttaaagggc 300

actacaggca attggaaagc atgctntttc atcctagggg atgaatgttg tgaaaggctg 360

gcctactacg gaatngcant aaacctagtt acttatttga aagtgaagct tcat 414

<210> 37810

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-D2

<400> 37810

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tcggctgcct cctgtccttc gccttcatcc tcgccgtcgt ttccgcgtc taggcaagcg 180

gaagcaagtg cttcttcggtt caggccacat gcattttcac gcctcaacaa tatttacctt 240  
 tgctgttagt ggttcatccg gtattctggtt tcgtactgaa ctcttcctg tcatgatatc 300  
 attgcactgc aaggaaaaaa taa 323

<210> 37811  
 <211> 202  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-030-Q1-K1-D4  
 <400> 37811

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 gctagctata gctgctgaat acatacatat acttgctgat cgagacgctg cttgtgacgt 120  
 ccgtccagtg catgtataat ccaacaacag atcgatcgaa gatgattcat aatgcactgg 180  
 acggacgcta gttctagatc gc 202

<210> 37812  
 <211> 62  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-030-Q1-K1-D5  
 <400> 37812

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaggggaag 60  
 gg 62

<210> 37813  
 <211> 434  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-030-Q1-K1-D7  
 <400> 37813

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 tgagaagggt cttgaccgtg gcgagaagat tgaactgctt gtcgacaaaa ctgaaaatct 180



gcgtttctcag gcacaagatt tcaggcagca gggcaccaag gtgcggcgga agatgtggct 240  
 ccaaaacatg aaaatcaagc tgatcgctct gggcatcatc atcgcgctca tctcatcat 300  
 catcctgtcg gtgtgccatg gcttcaagtg cggcagcaag tgaagaagg gacttacaga 360  
 tggcctgtcc ctgccctgcc cttgcctggc acctgcgaga aggaagagac ttcattgtga 420  
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<210> 37814  
 <211> 349  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-030-Q1-K1-D8

<400> 37814  
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 gcggcgggcg aggagggccg gnaccgcaac agccaggccg gggacgccga cgcggccacg 180  
 gcggcgggagg cccggggccg gcacgcgccg gggcacgagg ccgagaccgc cgagcacgac 240  
 gaccggcacc cggcgagga gcacgaggcc gcgaccaccg acgggccgga ccacgnggac 300  
 cnccaggccg gccgacgacg cgggcacgcc gacaccaacg ccggcgcgcg 349

<210> 37815  
 <211> 389  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-D9

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 ggaggctggg tgccaggccc ccgagggacc catcctctgc atcaataact gtggcttctt 180  
 cggcagcgcg gcgaccatga acatgtgctc taagtgccac aaggagatga taacgaagca 240  
 ggatcaggcc aagctggctg cctcctctat cgacagcatc gtgaacggca gcgacgccgt 300

catggagccg gttgttgctg gcagcaacac ggtagtagct gttgccaag tcgagttgca 360  
aacaatgaac gtgcagcagc ccgctgatg 389

<210> 37816  
<211> 368  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-030-Q1-K1-E1  
  
<400> 37816

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catccatgct tcggtccacg caccaccca gcccaccag cggcagctcc gcggcgccgg 180  
cgtccaactc cgacgccg cgatggctg gggcgggcg gcggcggggc agcgcgggcg 240  
caccgagcgg cgccaagctg ctgcagatcc tcaactgcg ggctcgtgggc agcgcgacc 300  
gcgtgggtgg gctgtccac gggttcggca cggaccagtc ggcggtggaac cgcgtgcttc 360  
cctacctt 368

<210> 37817  
<211> 153  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-030-Q1-K1-E10  
  
<400> 37817

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tgtaataatg gctttgctat gtcgaaatac tgggtttgtt atgaaatatt gggtttggtt 120  
tgaccaacac ggatgctcgg tttgtttgtt ttg 153

<210> 37818  
<211> 382  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-030-Q1-K1-E11  
  
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 cctcgcacct cttcgctgtg tttcagggac ttctcaaggt catagctggg gttgatacaa 120  
 gcttcaccgt gacatcaaag ggtggagatg atgacgaatt ctcagagctg tacacattta 180  
 aatggactac cttattgata cctnctacca ctttgcctct attgaacttc attggtgtgg 240  
 tcgctgggtgt ttccaatgca atcaataatg gatacgagtc atggggcccc ctcttcggga 300  
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 ggaagcaaaa caagacaccg ac 382

<210> 37819  
 <211> 417  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-E2

<400> 37819

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 cgcgctcggg ctctcagtga cggcatcagc ggtttcccct gccgcctatc gccagtcgca 180  
 tcacgccttc gcctccggtc caccgcacac cggccgggtca ccttgcatta cttgctaata 240  
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 agcttgatga gtaccttctc actcgcagct acatcactgg ctaccaagct ttcaaggatg 360  
 acctggctgt ctactcttca tttttggttg atccctcatt caagtatatc aatgtag 417

<210> 37820  
 <211> 360  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-030-Q1-K1-E3

<400> 37820

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agcgccgcgg cctgcactgt cctcgcgcg cggcccaagg gacggtgtct ccttcgccgg 180  
cgcaagcaac acgatacatc aacttcttaa agatcacggc cttcccggag gactgctccc 240  
gcgcgcgctg gagtcgtaca ccctggacga gtcgaccggc ctgctggaag cgcggtgtgc 300  
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<210> 37821

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-E4

<400> 37821

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ctagcactgt gggtttgctt tgggcagctg caagatttgg aaatttatga atgcgatgat 180  
cttgtctact ggccggagaa agtattccaa agcttgattt ccttgccggag gctagagatt 240  
tacagttgca agaacctaat tggatacgca gcggcggtgg cgaatgggtcc tgaccaggaa 300  
gcaatgagcc agttgctttt gcccaccta gagtctctaa agatattggg gtgtgaa 357

<210> 37822

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-E5

<400> 37822

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ttgcaaggga aatggaagtg atggttaaag aacatgggat aaattctttc aagtttttca 180  
tggcatataa aggctccttg atggtcactg atgacctcct cctgcaaggc ctacggaaat 240  
gcaagtcgct tgggtgccctt gctatggttc atgcagagaa tggatgatgct gttgccgagg 300  
gacaacagcg gatgattgac cttgggataa ctggtccaga agggcatgct ctctc 355

<210> 37823

<211> 199  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-030-Q1-K1-E7  
  
 <400> 37823  
  
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 cngctccggc gaaggcagng ccggccaaga aggaagacga ggcagcggnn gccgagnnga 120  
 aagggaggaa gaggggcaag aaggaagccg aggcggagac ggcggccacc gagccgaaag 180  
 ggaggaagag ggacaagaa 199

<210> 37824  
 <211> 207  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 37824  
  
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 cacnnngggg ngccaggngg gacaangggg nnacanacna ngaagnaaac cgcaggcnga 120  
 anaaggcaac gcaganggcn gcnggcanaa gagancganc aaancagncn gacangaggg 180  
 cagacaggaa ggcannnaac cganggg 207

<210> 37825  
 <211> 402  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-030-Q1-K1-E9  
  
 <400> 37825  
  
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 aaatatccgt gttcgtgaca atttcacact ctcctaacat ggtatcactt gtttgaagta 120  
 catctaatta ttcactcttg tttgaagtac ttcatttctt tttattcggc atcttagatt 180  
 ctgggtgatt ttggttttta tagggcagac ctgggtgcagt agtgagagct gtttcaccaa 240

gtcaccaagt catgggttcg aagtaacctc ttcacatttt cgtgggaaaa gcttgccttg 300  
 gtttatccct ttccgagacc ccaactcatgt gggagcctcc gacatttgtgt ctaccctttt 360  
 tataagccta cactcgtttc aaagcatgca tatactgctt tc 402

<210> 37826

<211> 402

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-030-Q1-K1-D12

<400> 37826

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 ccttgctcgc cagcagattg aagggtgttg ttcgggtgtag acacgaggca gccctgtaaa 120  
 ctatgcagaa tgaacatacc gttttatggg cacgcactcc agctgtcaaa tggatttgga 180  
 gcttgatttt gcgaagggtc ggatttgag caatcaagca acaatgaggc ttttgtgtat 240  
 ttggggttca cgctgaactt ctgtcctggg tttgggtgtg tgtagataag cagccactgc 300  
 ttggtaatag tacgtccttc agccatgtac tcgtgttgnt gaatgtgggt ctctatgtga 360  
 atgtgatgca ttctctagct gctgtcctgt caacattaaa ag 402

<210> 37827

<211> 388

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-030-Q1-K1-F1

<400> 37827

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 gangaagatg aagtggatga gatcgccgag atcagggccc ctcaattcga ggagtcgatg 120  
 aagtatgctc ggcgtagtgt cagtgatgct gatatccgca agtaccaggc gtttgcccag 180  
 actttgcagc agtcccgggg gtttggcagt gagttccgct tctcggatca gacggcgaca 240  
 gctggtgctg ctgctgcagc cgatccgttt gcttctgcgg gtgctgcggc tgatgacgac 300  
 catctataca gctagttggg ttgctcaata tcagtcccgt cactcatctg tttaaaactg 360

atcattctta acacgcatgt tatgcaat 388

<210> 37828  
<211> 381  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-030-Q1-K1-B5  
  
<400> 37828

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gnggaagagg agaagggatc nccgaaggcc tcgccggagg ctagcgagga ggagagcaag 120  
gatgcgtcgg agtcagaatc cgggtgagtct gatagcctct ccgagtccag cggatcggaa 180  
gcttctatga ggaagaagaa agggaggaat aaaagtcgcc gtagtagcaa gcgcagccgg 240  
cagcgccacc gtcaccgctc atacagttcg gagattgagg acgaaagcaa gagcgacgat 300  
gattctgtgg gctcttatga ttccgaggag tctagggata ggagcaaaaa gaagtcgcgc 360  
aggcataata gatctaagaa g 381

<210> 37829  
<211> 424  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-030-Q1-K1-B6  
  
<400> 37829

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cattactgga tctgaagatg gtacagttcg tatatggcat tcgacaactt acagacttga 120  
gaacacacta aactatggcc ttgagagagt ctgggctggt ggatacatga aggggtctag 180  
aaggatggtg attggttatg atgaggggac cattatgata aaaatgggcc gtgaagtacc 240  
catagcaagt atggataccg gtgggaaaat catttgggcg aaacataatg aaatacaaac 300  
tgtaaatatc aagacagtcg gtgcaagttt tgaagccaca gatggagaaa gattaccctt 360  
ggctgtaaaa gagttaggaa gctgtgattt gtaccacag agcttggagc ataaccctaa 420  
tgga 424

<210> 37830  
 <211> 425  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-030-Q1-K1-B7  
  
 <400> 37830

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 ctccgtacag gttatgctga cctgttccca cacaatgtgc tgtacagttg gtggggctat 180  
 gttgtgatta ctactccgaa tgggtgttctg gatcatgagg aagcaatcag gcagaacgtg 240  
 ggtgggcaag tccttgggta tateccattga ctgacaagta acgtcgtctt tagtcctgaa 300  
 tgaggcaacg ggttgtgccc atttgggtatt actgtactgn tgttattacc gaaccatttc 360  
 tggatgcac ttgggagctg ttttgtagtc ggcatggcc atgcaagaaa ggaaataaca 420  
 tgcca 425

<210> 37831  
 <211> 366  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-030-Q1-K1-B8  
  
 <400> 37831

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 caacggaact ggcatgggtca aggctgggtt cgccggcgac gacgccccga gggccgtctt 180  
 cccagcatc gtggggcgcc cgcgccacac tgggtgcatg gtcgggatgg ggcagaagga 240  
 cgcctacgtc ggtgacgtgg cgcagtcctaa gaggggtatc ctgaccctca agtaccctat 300  
 cgagcacggg atcgtcagca actgtgacga catggagaag atctggcatc acaccttcta 360  
 caacga 366

<210> 37832  
 <211> 405



<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-030-Q1-K1-B9  
  
 <400> 37832  
  
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 ctctttccgc gccgcctgcc ggccgtcgcc gccatggtga agtactcgca ggagccgggc 120  
 aaccctacca agtcggctaa ggccatgggc agggatctga ggggccactt caagaacaca 180  
 agggagacag cttttgcgct tcgcaagttg tctttgacca aggctaagcg ataccttgag 240  
 gatgttattg ctcaaacgca ggcaattccc ttccggagat actgtggggg tggttggtcgc 300  
 accgcgcaag ctaagtcgcg ccaactccat gggcagggcc gctggcccgt taaatcagcc 360  
 aggttcatcc tggatttget gaagaatgct gagagtaacg ctgat 405

<210> 37833  
 <211> 183  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-030-Q1-K1-C1  
  
 <400> 37833  
  
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 ggctccgact cgccgacgcg ctctccttcc cccccatt ccccgccage aacttcgact 120  
 tctaccgct ctccctccac gtcgcgtca gacttcttgc cagcggcgcg ggtggcgcca 180  
 ctc 183

<210> 37834  
 <211> 294  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-030-Q1-K1-C10  
  
 <400> 37834  
  
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gccttcgtgc gtgcagggct gctgctgctg ctgcctccctg cgccttctcc cccgcgacga 180  
 cgcgctctcg tccccctccg gctgcgcgca ccgnetgaag ccttggtctt ggcgtgcccc 240  
 atccccacc tcgtcctnct aacgcttggc ccccgccgct cccaccctg atct 294

<210> 37835

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-C11

<400> 37835

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 attacggccg ggaccatgtg ccacaaggct aattcatggt caagcttaag ggccccaaagt 180  
 gtgccttaaa agcagagacc aaaccaagct tggacaccaa ccttcacttt tcttacgggt 240  
 ttttaaaacg gaccagggca aaccaatggt tccaaaacat ttgggcaaaa acttgacc 298

<210> 37836

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-C12

<400> 37836

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 gggaaaaata tccccagacc ctagctcccg atctcgatgg cgaaccctcg cgtcttcttc 120  
 gacatgaccg tcggcggcgc cccggcgggc cggatcgtga tggagctgta cgccaacgag 180  
 gtgccaaga ccgcggagaa cttccgcgcg ctgtgcacgg gcgaaaaggc cgtgggcaag 240  
 tccgggaagc cgctccacta caagggtcc accttccacc gcgtcatccc cgagttcatg 300  
 tg 302

<210> 37837

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-C2

<400> 37837

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gaccaccatc cagcactgc tagtaagcga gcttagctac tgatcgtcgt caagcactct 120  
cgagctcgat ctctcgaagc ggctagctgc tagcagccaa ttaatggcga agccttcgca 180  
ggtgctggtg tcggcgctcg ccgcctgggc ggtggtcctg ctgctgctgt gcgccgccgc 240  
gccgcggggc gccgacgcgg ccacggcggtg cgacgccgcg cagctgaccc cgtgcgcggg 300  
cgccatcatc gggagctcgt cgaccaccgc ggctgctgc aacaagctca gggagcagca 360  
gccgtgcctg tgcacgtacg cgcgc 385

<210> 37838

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-C3

<400> 37838

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ggcgagcatt ttgcttctgc gatcgatcgg cgcgacgtgc acggccatgg agatgatcga 120  
cgcagagctg cgtctgggtc cgcccggcag caacaacaga gacgtcatca acgtcgtgca 180  
gccggcggtg gcggcgggcga aacggccgtc gtcgtcgggtg ctggagagcg aggcgtccgg 240  
gacggacgac catgaccatg acgacgccgc accgaccttc aaggtgcatg tggtaggggtg 300  
gccgccggtg agagtgtacc ggaagaacgc gtttcacgcg gcggcggaag cgaggaagac 360  
caagcggggc g 371

<210> 37839

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-030-Q1-K1-C5

<400> 37839

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gtcattcatc tcatgacaat atgctcgccg catctctgtc gggtagttta agcccagttg 120  
gatggttggt tgtggtttagc gttacattga tcaattcttt gaagcagcat ccaagacgac 180  
cagctctagt ttcagaaaaa agagggcctt ccgattccat aaccaggggtg gtccaagatc 240  
cagaattggt tcttggtggt taaaaaagggt accattttta atatatgtaa aggttgtcac 300  
tgaattaact gcttggtgat gttgtaagtt gcaacaatcc gtgaagattc aatgcatgaa 360  
ttttcttatt gcaaaaaaaaa aaattttttg gttgtgggtta tttttattaa aaaaaaagg 420  
ggcgg 425

<210> 37840

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-C6

<400> 37840

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cctccgcgcc cgaaaggcaa agcctcctcg ctctgcccc gccccctcct cgcggcgtcg 120  
gtcaaaccct agcacaccgt acgcgagggc ccgcccgtc ccattcccca cctccacca 180  
tggcggcgct ctccgcgcc ctccgcgcc tgcgcgcgg atcccggtc gccgcgtccg 240  
accccgtaaa ggtctcgtgc gtgaggagca ctggctcagc tcaattcggc tgcgccttcc 300  
cctacatcag ggcctcctct tcggctgcga ggaacctcga gccgctgagg gcgatagcca 360  
cgcaggcgcc ccctgccatg ccacaatatt cgagtgggga gaagacaaag attggcatca 420  
acgggttttg ggc 433

<210> 37841

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-C7

<400> 37841

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agagcaggag agagaaattc gataggggttc ccatgcccct ttcccaccgg ccaccacttg 120  
ccaagcgaaa gcgggagtgaggaggggag agtcccattt cccaagccc tacacgagag 180  
aaagagagag agggggggagc agaggagcac gctacgagag agggaggtcg agggagacag 240  
cagaagctgc agcataagcc agaagcatta gaagcggcag ttgtaaccaa gtggcatcag 300  
aagatagagc cagccatccg tctatccatc tatctagctt tacaggtata aatcctcgcg 360  
cctcggttaag gggccaaggg 380

<210> 37842

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-C9

<400> 37842

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acgcgaggcg gctcagcgac gaccacggtc tgggtgtggc caacgcggag gacctgcggg 120  
gccgcgccgc ggagcggatg aaccgcccgg acctccgcca ggcggggctg cgtgcgctcg 180  
tgcaagtcgt catgggcgtc aacctcgtga agccgcagag ggtcaccatg agccgctggg 240  
acgctcctg cctcagctac gagcagatca agtacgcctg catcgacgcc ttcgtctctt 300  
tcgaggtcgc ccgcaggctg cttggcggcg cgtactgacg gacgcggtga ggtgctgtgt 360  
tgtttaatcc ttactctatc ctgtcttagt ttgttgtaact ttgccgtgga ctcccgttgc 420  
ttaatcctta g 431

<210> 37843

<211> 303

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-030-Q1-K1-D10

<400> 37843

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tgctggacac caacatcctc tgggtgaacc ccgactgcgg cctcaagacc cgcaagtaca 180

cggaggtcaa agccccgctg accaacaatgg tctccgccgc taagctcatc cgcacccagc 240  
 tcgccagcgc caagtgagca cctttttttt gcctttttcg tttccgagga gggcgtcgtc 300  
 gat 303

<210> 37844  
 <211> 362  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-030-Q1-K1-B4  
 <400> 37844

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 gatccagcca agccagggat cgccatgtcg gactcggagg agcaccactt cgaatcgaag 120  
 gccgacgccg gagcgtccaa gacctacccg cagcaggctg gcaccgtccg taagaacggc 180  
 ttcacgtcga tcaagaaccg cccctgcaag gttgtggagg tttctacctc aaagactggt 240  
 aagcatggcc atgccaaatg ccactttggt gccatagaca tattcaacgg gaaaaagctc 300  
 gaagatattg tgccttcgta acacaactgg gatattccgc atgtgaaccg tactgagtac 360  
 ca 362

<210> 37845  
 <211> 267  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-029-Q1-K1-H8  
 <400> 37845

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 ggttccgggc cttgttctcg ggttttgcct tcggcccgcc aaaggccccc gccggccccc 120  
 caaaggccga cccatcccc aaccttttcg cttccggtta aagcaggcgt cccccaagtg 180  
 aaggccttta aaaaagcctt tgcggagttt ggggaagttt tgcttgctca agttgtgacc 240  
 gatcgtgtca gtgggttttc taaggga 267

<210> 37846

<211> 402  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-H9

<400> 37846

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gcgaggcaat ggcgtcgcgg ctctgtccgt tggtcgcggc gctgtccta ctctcctcc 180  
tgacggcggc gtcgtccgag gcgacgtgc acccgggtga ctacctggcg ctgcaggcgg 240  
tgcggcgggc gctgtcggac ctgccgggct cccgcttctt cgcgtcgtgg gacttcacgg 300  
gcgaccctg ctgctcgcg ggcgtgtcgt gcacggacga ccgcgcccgc ctggagacgc 360  
tgtgcgtgg ggaccgcgc gcgggcgcac cgggccttcg gg 402

<210> 37847  
<211> 302  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-030-Q1-K1-A1

<400> 37847

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gggtgtattc caccttgccc gccgagttac aagcattggt tacaagggtc caatctgtgt 120  
ttgtcttcc tgttggcctt ccacctgtcc gtgattggga tcaccatata tctcttctac 180  
ctggtgctca accatttcat gtgagacat acagatatgc acccgcgttg aagactgaaa 240  
tcgagcgcca agtccaagag atgttatctt caagcattat tcaacacagc aacagtgagt 300  
tc 302

<210> 37848  
<211> 438  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-030-Q1-K1-A11

<400> 37848

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cgcttactgg gaactcgtta taaaggatat ccaagatgcg tgcaaacttt ttgagcccat 180  
ctacgacgag actgatgggg ctgatgggta tgtctccgta gaggtgtctc ctaggttggc 240  
aaatgacact caaggaactg ttgaagcggc aaagtgggta cacaaagtgg tcaaccgccc 300  
caatgtctac ataaagatcc cagctactgc agaattgtgt ccttccatcc aggaagttat 360  
cgctaattggc attagcgtca acgtcacgct tatnntctca attgcgagat atgaggctgt 420  
gattgatgct tacctcga 438

<210> 37849

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-A12

<400> 37849

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atccagagca tcgggggtgat gatcggcggg gctatcatct ggtacaagcc cgagtggaaa 120  
atcatcgatc tgatctgcac cctcatcttc tcggtggtcg tgctgttcac cacgatcagg 180  
atgctgcgca acatcctcga ggtcctgatg gagagcacgc cccgtgagat cgacgccacc 240  
aggctggaga gggggctctg cgagatggaa ggcggtggtg ccgtccacga gctgcatatc 300  
tgggccatca cagtggggaa agtgctactg gcttgccatg tgacggtcgc caaggaagcc 360  
gacgcagacg agatccttga caaggtgatt ggggtacatca aga 403

<210> 37850

<211> 318

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-030-Q1-K1-A3

<400> 37850

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tctcatcgcc accaatggcc actgccgagg tccagacccc gaccgtcgtg gcggccgagg 180  
aagcgcccgt ggtggagacc ccggcgctcg cgcgtcgtgcc cgaggagtct gcccccgccg 240  
aggccgaggg cgaagccgag gctgctgctc ctgctgatcc cgaggagctt cccgcggccg 300  
agcagcaggg agccggcg 318

<210> 37851  
<211> 350  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-A4

<400> 37851

cccacgcgtc cgagaactga tgctcttgat gctgctggca acacaactgc tgctattggg 60  
aaggggtttg ccattggttc agctgctctt gtgtccctgg cgcttttttg tgcctttgtc 120  
agcagagctg gagtgaaggt cgtcgacgtc ctctcccca aggttttcat tggtttgatt 180  
gttgagacca tgctttccta ctggttctct gccatgacca tgaagagtgt tgggaagcgcc 240  
gccctgaaga tggaggagga ggtccgcaag cagttcaaca ccattcctgg gttgatggaa 300  
ggaacagcca agcccgacta ctcaacctgt gtgaagatct tcaactgatgc 350

<210> 37852  
<211> 204  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-030-Q1-K1-A5

<400> 37852

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cncgcccccg cgacggcggc ggcgggcgga gaaggccagg agcgggacgc gcagaagaag 120  
cagcccagcg accagaacgc ccgcgacgcc gcgcgccacn ccgccgagga gaggcagcgc 180  
caacaacagc gcggagccaa cgcc 204

<210> 37853

<211> 321  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-030-Q1-K1-A6  
  
 <400> 37853  
  
 aagggannca ccaaagaggg ggngaagaac aagaagnacc nngcagnngc ngggccagag 60  
 gagggngccc agacccggn gnncaggcc anngaggcnn nnggngggaa gngcaaccn 120  
 gaggcgccga aggaggnncc cgngnccnc aaagcccnca acgaaggaga nanccnggac 180  
 gaggaaacca nngnggacng gnacaangan gcngncgcag cngggaagga cccccaggnn 240  
 gncaagaang ccaagcacgn cgncgagggg cnccagagng ccgagncnga ngaagaaggn 300  
 gacgacgagn gaagaagcca c 321

<210> 37854  
 <211> 240  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-030-Q1-K1-A7  
  
 <400> 37854  
  
 gcngngngan ccgagacang ccggcnnnc gngggaaagg aaaaaaggc acagacggac 60  
 gagaacngga cgcaaaagcg ngncangan cgcgnaagca nggcgaaacc anncaaaagg 120  
 caaancagag aagaacangg gcagggcnaa gcacgggaac nnggagggac caacgaccgn 180  
 gngccgcgag accagcnagg aggaaaggag aaacgngnng acaaacaaca ggacgaggag 240

<210> 37855  
 <211> 356  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-030-Q1-K1-A8  
  
 <400> 37855  
  
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 gcgagngan ggcgaaggac ccgacgcgg nggcgaaagc cncgnggag cacnacnacc 120

ggacgnncga caccaaccgc gcggcgccgg nggggcccga acaggagacc nncaagcnca 180  
 ccnncgaggg ccagaagnnc cagggcccaa ccgccanggc cggcaagcnc ggaacgcnac 240  
 ccaaccaggc cggcgagcac cagaacgnca ccgncgacag ccagccgncg gggccccagg 300  
 gaggcaagcn cgnncnncgnc nccggagcca accgcaccgg ccccgaggag cacccc 356

<210> 37856  
 <211> 371  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-030-Q1-K1-A9

<400> 37856

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 gaattctact tttttttgct gatgaagaaa gtgaagtang tgcaatcgat ttccccatta 120  
 ttttattact tgcattttga ttatttaaata tgttattcct attggtgcga ctactagagt 180  
 taatattaca ggtaaaaatc ttacgaatac aatagaaata ccattgggtg gtgctggagt 240  
 acctatttcg tcacaagggt gtgattcctg ccatgttttt tttttctgca ttggtagttt 300  
 cacttccaaa gcttttctag cttcgtggta aggtaaagag nactactct gctatngtac 360  
 tagatctcat g 371

<210> 37857  
 <211> 325  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-030-Q1-K1-B1

<400> 37857

cagatccaga gnacttttgc aggaactgat ggattattgct ggtagatact cttttaatcg 60  
 gttattattt tggtcagctt atggtaaggg tctgatgac tagtggtgca tgcacattag 120  
 tcttgctgtt tcagggaggc gcggacacaa gtatatacca ctcatcgac ttcaaattgt 180  
 gctcgatgat gagggctatt actcctcggg gctcttttcc atctgtgtca tcatgcaaag 240  
 aaattgaagt tacaccttct agatctgtct atcacttgta aattggggct gttgatgctg 300

ctgcaaagat acgatatctg gatac

325

<210> 37858

<211> 393

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-030-Q1-K1-B10

<400> 37858

gttcaagatt cagatgatgt ctggtttaag aaattggaat cttgtataac acctgcgata 60

gaggcagcac agctaaagaa gtttccagag agactatctg ccattcctcc cagaattctg 120

gaggggtcagg tcccagacat aacagaagaa gtctatgagg aggataataa gttgtggaag 180

aagcatgtta atacttataa gaggggtgaac aagctgatag gttcttcaag gtacaggaat 240

attatggaca tgaatgcagg ccttggaagt tttgctgcaa ctcttcattc ttccagttcc 300

tgggtaatga acgttgtgcc ctctatatca gaaaggaaca ctctnggtat catatatgag 360

cgaggtctga ttggtatata ccatgattgg tgc 393

<210> 37859

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-030-Q1-K1-B11

<400> 37859

ctcgcccttg ccaaggtcga cgccatcgag gaaaccgacc tcgcccagaa gtacgaggtg 60

cagggcttcc ccaccatgct gttcttcacg gatggcgctc ccagaggcta taacggagcc 120

aggaccaagg aagccatcgt cgactggatc aacaagaagc tcggcccagc cgtgcaaaat 180

gtcaccagcg tcgacgaggc ccagagcata ctccaccggag atgacaaagc cgtccttgcc 240

ttcctcgaca cactatccgg tgctcacagt gatgagcttg ctgctgcttc gaggctggaa 300

gatagcatca acttttatca gacttcgact cctgatgttg ctaagctntt ccatatcgat 360

gcagcagcga agcgtccatc cgtagtgctg ctgaagaaag aggaagagaa gttgaccttc 420

tatgatgggg agtttaa 437

<210> 37860  
<211> 349  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-B12

<400> 37860

cggacgcgtg gggcctgaaa gaggatcaga cacccttat cctcatccag gatggtgact 60  
gcaagaagtt cttgaagggtt cacgttgagg ctgaccagat cgtctcttgg ttgaaggagt 120  
actttgacgg caaattgact ccgttcagga agtctgagcc tattctgag gtcaacaatg 180  
agcctgttaa ggtggttggt gctgacaacg tccacgactt cgtcttcaa tctggcaaaa 240  
atgtccttat tgaattctat gcccctggt ggggacactg caagaagctg gcgcccattc 300  
tggacgaggc agccaccact ctccagagcg acgaagaagt cgtgattgc 349

<210> 37861  
<211> 393  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-029-Q1-K1-H7

<400> 37861

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gctcctcgcc gatcgatagc atggccgtct tctccgacct ccacaccgcc gacggcctca 120  
agtccctcga ggctcacctc gccggcaaaa cctatgtgtc tggtgactcc attactaagg 180  
atgacattaa ggtcttcgcc gcggtgccgt cgaagcctgg cgctgagttt cctaagccg 240  
cccgtggta cgagaccgtc tctgcggctg tagcctcaag attccctggt aaggctgttg 300  
gtgtaaattc gcctgcggga tcagcttctg cggcagctgc tcctgcggat gaagcttang 360  
atgatgatga acttgatctt tttggtgatg aaa 393

<210> 37862  
<211> 415  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-030-Q1-K1-B2

<400> 37862

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ggacagcgnc gcaactcngga ggcacggcnn gnnagnngca gnggacgcn gccgnnnan 120  
nnnaacccga canngagagn cnacanggan nnggaancca angcnggact agacngaaaa 180  
gcacatgngn cngggcgacc ttnttttgac gcacatgatg ccgctgagc ctgcctgaaa 240  
gaactcgatg cattgccggg cccgggcatg ggtccaactc ccaactttat ttttttacag 300  
tatttgctta ctcttcaatc catccattca tncatccatc catccgtacg tataggccgg 360  
cggaacgcg ttccaggtgc cggccgggag gggggacagg ttctgtgcg gcgcg 415

<210> 37863  
<211> 180  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-B3

<400> 37863

cggacgcgtg ggcaaacacc attgctgatg gactacgagc ttttcttga gacctgacat 60  
ggcctgtggt gcgtgacttg gtggacgatg ttatcggtgt ggatgacact ggcattgtgg 120  
acgccatgaa aatgtgctat gagatcctga aagtggctgt tgagcccaat ggcgcaattg 180

<210> 37864  
<211> 347  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-F9

<400> 37864

gtttcaagat gtctgagaa aacagtgaac ttacaggatc tgcagaacag cttgattgca 60  
tctagaggag cttgtaaaag tgcttgcca catatgggga cctggagaac tgaatccgtc 120  
tagtgatca ctcatctctg ctctacgttc agagcttgat gttgcccggt ctcatgttag 180  
aaagctaatac aaagaaaaga agtctaatac ctatgaaatt gaggacttaa agaagcaact 240  
tgcagaagaa atggaatcgt ggaaagtcaa acaaaaggag aagggtgcaa acgctctcca 300

atttataggt tcagagctag acactgagaa gaagtcaagg gaaagag

347

<210> 37865

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-G1

<400> 37865

gctgcggtta gctgttgcatt tgcagcactt cgagccttga gctgctagct cgcccttcag 60  
cacagtcccc agacatggag ttccaagacc gctgccacaa ggtccaggag cccaagtctg 120  
actgcctgct cttcgacctc gacgacaccc tgtatccgct gagcgccggg atcgaggcc 180  
atgtcaagaa gaacattgaa gattacatgg ttgagaagct ggggtattgac gagaccaaga 240  
tcgagaacct gggcaatctg ctgtacaaga actacggcac cacgatggct ggtactcagg 300  
ccatcggtta cagcttcgat tacgatgagt accacgcctt cgtccatgga aaggtgccgt 360  
acgacaacat caagcctgac cccattctca agcacattct caaga 405

<210> 37866

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-G10

<400> 37866

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gttgcagtct gagtctgtcg aggatgccat ctcccagatt gttggggatg ccaaggagaa 120  
gaataggaag ttactgaga ctgtggaact tcagattggc ctgaagaatt atgatccaca 180  
gaaggacaag cgtttcagtg gctctgttaa gttgccccat atccctcgtc ccaagatgaa 240  
gggtgtgatg cttgggtgatg cccagcatgt tgaggaggcc gagaagatgg gacttgacta 300  
catggatgtt gaggctctca agaaaatgaa caagaacaag aagcttgta agaggcttgc 360  
caagaagtac catgctttct tg 382

<210> 37867

<211> 283

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-G11

<400> 37867

cggacgcgtg ggcggacgcg tgggcgcctt cctccgcggc tcaaaccttt cccccttctg 60  
 gcaattcccg ccgccgctcc atgccgtaac gcgacaccat gagggagtgc atttcgatcc 120  
 acatcggcca ggccggtatc caggtcggaa acgcgtgctg ggagctgtac tgccttgagc 180  
 atggcattca ggctgacggt cagatgcccc gtgacaagac cattggggga ggtgatgatg 240  
 ctttcaacac cttcttcagt gagactgggtg ctgggaagca cgt 283

<210> 37868  
 <211> 367  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-G12

<400> 37868

gcaatggcgg accaggctaa ccaaccact gtccctcata agctcgggtg ccagttccag 60  
 gtgcgctcga tcatctctga aggtgtacgg gcccgtaaca tatgcccatc tgtctcatct 120  
 tatgaaagga gatttgccac aaggaactac atgaccaga gcctttgggg cccttcaatg 180  
 tctgttagcg gtggcatcaa tgtcccagt atgcagacc cgctctgtgc taatgctcct 240  
 gctgagaaaag gaggaagaa cttcatgatt gatttcatga tgggcgggtg ttcagctgct 300  
 gtttcaaaga ctgctgcttg ctccatcgag cgtgtgaagc tgcttattca gaaccaagat 360  
 gagatga 367

<210> 37869  
 <211> 281  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-G3

<400> 37869

gccaccgtcc gtaggagcat ctgcaggcac tagctccgca acctggaccc gttcctccag 60  
 ctcgacgagt tcaactgtctc caagcccgcg gggttccccg accaccgca cagaggattc 120



gagaccgtca cccacatggt tgagggggcc atcatccacc aggacttcgc tggtcacaag 180  
 ggcaccatca ggacagggga cgtgcagtgg atgacggcgg ggcgaggcat cgtgcactcg 240  
 gagatgccgg ctggggacgg cgtgaacgag gccctgcagc t 281

<210> 37870  
 <211> 295  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-029-Q1-K1-G4  
 <400> 37870

gcagcaagca ggagcagtac aggaggcgcc tagagcccag cgtcggagat ctccgccgcc 60  
 gtggagacgc tggccagcgc catgcggcgc gagaaccgcc ggtccaaggc cccgccctcc 120  
 tcctctgctt cctccgccct cgcctcgggc agggtccttc tcgtcatggc cttectctcc 180  
 tgcctcgect ggctctacgt cgcggccgt ttgtggcagg acgcgcagac ccgggcgatc 240  
 ctgtccggcc tctcagaaa gagctctacc agcgtcccga aagtgtcttc ggtgg 295

<210> 37871  
 <211> 303  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-029-Q1-K1-G5  
 <400> 37871

aaggcaggca ggaatgcatc tgccatttga acagagcaac ctgcacatta tttatggatg 60  
 cctgttcaat ggagggttg gtcattacat gttcgtatat actagaaaaa acagaatatt 120  
 agcattaatc catagttaat taaagtatgt taatgcgcct gttctttggg gagtactgta 180  
 atcatatgac ttgggactgg gaaattttca cagaaagaat ggatgtgaga tacacaaaaa 240  
 ttaatgccgt ggtcaaaaaa agaaaaggcc tgcaactctg gatcaatcct atataaaagg 300  
 gcg 303

<210> 37872  
 <211> 168  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-G6

<400> 37872

atggccttgc tctcccgct cacctggctc tacgtctccg gccaatgtg gcaggacgca 60  
cagacccgag ctatcctgta cggcctcctc tagaagagct ctaccagcgt tccgaaagtg 120  
ctctctgtgg aggacaagct tatgaacctc ttgtgcaagg caatttta 168

<210> 37873

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-G7

<400> 37873

ggccggaccg acgcattcgt ccgcccaccc gtccaccttt tttaggcact agtctttcaa 60  
cctggacceca ttctccagc tcgacgagtt cactgtcttc gagggcgccg tcttccccga 120  
ccaccgcac agaggattcg agaccgtcac ccacatgttt gatggggcca tgatccacca 180  
ggacttcctt ggtcacaagg gcaccatcag gacaggggac gtgcagtgga tgactgcggg 240  
gcgaggcatc gtgcactcgg agatgccggc tgggtgacagc gtgagcgagg gcctgcagct 300  
ctggatcaac ctctccttca aggacaagat gatcga 336

<210> 37874

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-G8

<400> 37874

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tggagactct gaccagcgcg gtgcggcgcg agaaccgccg gtccaaggcc ccgccctcct 120  
cctctgcttc ctccgccctc gcctcgggca gggctcctct cgtcatggcc ttctctcct 180  
gcctcgcttg gctctacgtc gccggccggt tgtggcagga cgcgagacc cgggcgatcc 240  
tgtccggcct gctcgagaag agctctacca gcgtcccgaa ggtgctctcg gtggaggaca 300  
agcttaggaa cctcgggtgc aaggcgattg gaaagaaaat tg 342

<210> 37875  
 <211> 332  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-029-Q1-K1-G9

<400> 37875  
  
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 gcaaggggga gtgcagattc agcatggggc tctgttaggg ctgcaatggg gcaccctgaa 120  
 cctttcctgg tcaaacatgt cgcaattgga aatgaagatt gcgggaaaaa gttctaccgt 180  
 ggtaattacc tcaaattcta caatgctata agagaggcct atccagacat tcagatgatt 240  
 tcaaactgtg atgggttcac tagaccactt gaccatnnct gcggattgta tgaattccat 300  
 gtctatactg attcctagga cttgttaaca tg 332

<210> 37876  
 <211> 379  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-029-Q1-K1-H1

<400> 37876  
  
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 agcaatgtga ctatataata ataataaaat taacagaaga ggtacatata gtttcacttt 120  
 aattttgaaa tgcaacagca gcttgatgtc tctattgaac cctagaaaca actgaaggag 180  
 aaaatactct tccacaagga ataggattct catttgtgct agcagaatca gagttaattg 240  
 catcattagt tctaggaacc tgctgggggtg aactttacca cccagaagag gcataaccaa 300  
 tttcttagaa agaccaccac tgттаатсtt gtcатcaatg gtcaatatat ttcttttgga 360  
 caagtcattt attataagt 379

<210> 37877  
 <211> 408  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-H11

<400> 37877

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gcctggaatg gctggctttg cagtgcctct ccagcttggtg tggatgtcgt tgctgcacat 180  
ctaacagcag tggctgatgc ctagagggtg gttctttagt tcagatctat cctgttttac 240  
agtactaggt taatgaacat agtgacagac acaatccaaa tttattacaa aatagtaaata 300  
aagcaaaaaa ctatatttcg acttacatag catggtagct attttttcaa atagattgcg 360  
ccagatcaaa acacaacgac agactatttt tatgttctcc aatgcatg 408

<210> 37878

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-H12

<400> 37878

ggcccacgcg tccgttccac gcgtccgttc acgcgtccga gacgggacctg ggcgctctgcg 60  
tgggtatata gctcttcagg gtctgtctgc aggtcaccgc cccaacgctc gtgggtggagg 120  
gcctcgctcc ggggacgcag agctaccgca gcgtggcgca gtaccgcgag gccgtccgcg 180  
tgccgggctt cctcgctcgtc ggcgctcgagt ccgccgtcta ctccgccaac tccatgtacc 240  
tggtggagcg ggtcatgcgc tacctccgcg acgaggagga gcgcgcgctc aagtccaacc 300  
acccttcat ccgatgcgtc gacctcgaca tgggcgcgct ctc 343

<210> 37879

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-H2

<400> 37879

aggagctcgc acaagcctat gaggttttgt ttgatccaga gaaacgtgag atttatgatg 60  
agtatggtga agatgccctt aaggaaggaa tgggcggtgg aggatcccat gttgatccat 120

ttgacatctt ctcatcattt tttggaccct cttttggagg aggtggtgga agcagcaggg 180  
gaagaaggca aaggagggga gaagatgtag tccaccact taaagtttct ctggaagatc 240  
tttacaatgg cacctcaaag aagctctctc tttcgcgcaa t 281

<210> 37880

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-F8

<400> 37880

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cagattgaaa gccaaagatat gcctgggctt agcttcaaaa cacacccaaa tatcaataag 120  
gatttgttta acagtcagca aattttggga gcaaaagatc caaacaggcc ctttccgagt 180  
ggtcaaaatg aaactcctct ggtgaaatgg agaatccagg ggatggatga gtcgtcttta 240  
cctctgtcag tcaattgctg gccgtcagta tctggaaatg aaacctattt gaacattgga 300  
ttttgaacct tttagaatgt 320

<210> 37881

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-H5

<400> 37881

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cgggtgtaggg ggagctgaat gagcttttga tcacttatcg atggccaaaa aaagggagga 120  
aacgtgatta catgcttacc acagttgtgc tggaaccgaa tcgccttgac cttgaatgga 180  
tattttcatg tttacttcac gtatgataag gttaacagca agaaaaatca tttacgttgc 240  
atgagagcac ttaatcatac ctgaagggtt ttgtagatct cgatgctatt tcatatgatg 300  
catcaagttt tgtgacgttg acttaagact tattattatc atgattgact tatagtggga 360  
cctgtacgct atggc 375

<210> 37882

<211> 293  
 <212> DNA  
 <213> Zea mays  
  
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 cttttcctgc aacccttgct gaacttacgg agagattgaa aacttggaag aacattcttc 180  
 aaagtaatgt acaggatcgg gtcccagcag tattaaaact ggaggaagaa aaggaaacac 240  
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 <223> unsure at all n locations  
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 <400> 37883  
  
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 acagaagaaa tgttatgtta aaagttaaaa ctgtatccat ccaatgaaga taacagattc 180  
 gaacatctac ttttctgtgg ggagcaagtc ttcatttttg acacagtcac ggcaaagttt 240  
 ccccaaacia aacgactctt ggaacacatt ggcaatgtct atacatctnc cacataacat 300  
 acatcttcag atgccaacaa tacaccctc tgcaagtact atgtctgctg gtcttgcaat 360  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-029-Q1-K1-E10  
  
 <400> 37884  
  
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gtccttacta cacagtcact cattacacag agtttgctga gaccaaggac actgtgctta 180  
ttcgaggaga tgttggtttt accagcaaac taaccgattc agaggcaaag actcttctag 240  
agactgctca ctggttctac ctgaatgatg tgagatacag actcgtggag cgcttcaaca 300  
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gaccagttt a 371

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<211> 125  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-E11

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gacca 125

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<211> 349  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-E12

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agagtggctg aacaaccgct cacgaattgc tgattagtga ggctccggac gctttgctga 180  
tgtcgacagg tgtatttttt accagggggc taaccgtgag aggggcacat actcttgctg 240  
cgactgatga ctgggctta ctggatcatg acatatacag actcctgggtg cgctttaaca 300  
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<210> 37887  
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<212> DNA  
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<223> Clone ID: LIB3069-029-Q1-K1-E2

<400> 37887

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ctcatacaac ccatctggcc attgcaaagg tggggccttg acttgttggg tccattacca  180
ccggcccaag ggaacttaag atatgttgta gtggctgtgg aatatttttc caaatggatt  240
gaggcaaagc ctttagccac aataacttcg gccaccattc aaaagttttt ctggaagaat  300
attgtttgtc gtttcggggg accaaaggcc atcactgtgg ataatggaac acagttcgac  360
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 <211> 222  
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<223> Clone ID: LIB3069-029-Q1-K1-E4

<400> 37888

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tgtctgcggg cggcgcgctc gccgtgacgc tgcacatgga ccggagccgt ggacctgacg  180
ctgcctatgg agaacacgct gatccacagc agctccacgc cg                    222
  
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<210> 37889  
 <211> 249  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-E5

<400> 37889

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tctttacaca ccacgagata aaactcatgg agcaacctga tgcatactag aaaaaatctg  180
  
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tatacaaaca tcggaagat agcatatattt cggcagaact actaccaaact gggttgcatg 240  
acacacgac 249

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<211> 405  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-E6

<400> 37890

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gtcgtattag ggcacttcgc cggcgacgag taccacaagt ttgcaggcag tggacacttt 180  
ctctggtatc agaggggtcaa tgtccaatta ttatgatgac tacgatgaca ttgacgagat 240  
ggaggatgat tatgatatgg atgatcccat tgatgacatg gtagacgaac agcaagggat 300  
tagggattct gatgcggaag ataatgatta tggacaacca aatgataaga tcccagatac 360  
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<210> 37891  
<211> 350  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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gttttgcgcc gacattggct tttcataagt gctcaatcgg gatctatccc ctcgagcata 180  
gagaaaaagt atcaattttg acaaggggggt ccaatattct ttaagcatgc ctacctcaat 240  
ttgccacaag ccagaatgcc atgatatgat cgatgaaatg gctgttgccg gcaaatgact 300  
ttcaaggatc aattgtcttt caagaaccac accttgtatt ggattacggg 350

<210> 37892

<211> 427  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-E8

<400> 37892

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ctaccgcgag caggettgga ccgtccgtaa gaacggcttc atcgtcatca agaaccgtcc 180  
ctgcaagggt gtggagggtt ctaccttcaa gactggtaag catggccacg ccaaagtcca 240  
ctttgtcgcc atagacatat tcaatgggaa aaagcttgaa gatattgctc cttcatcaca 300  
caactgtgac attccgcgat tgaaccgtac tgagtatcag ctgattgata tttctgagga 360  
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tgatgag 427

<210> 37893  
<211> 373  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-E9

<400> 37893

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tgaggagtatt atccagaaag ttccattcc atttctccat gcaagtgtag ctctagtaaa 180  
actagcagag atggagtact gtggcactac aagttacttc atcaagctat ttctagacaa 240  
gaaatatgct ttgccatacc gtgcacttga tgcagtgtt gccatttca tgcgttttgt 300  
tgatgatgag aagatcatgc ctgttatatg gcatcaatca ctgcttgcat ttgtggaaag 360  
atacaagaac gag 373

<210> 37894  
<211> 393  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-F11

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gtcttgctgt tggcccagct gaaaaagaag gaacttctcg catcactact gttgttcctg 180  
gaactgatga atccattgcc aagctagtag atcaactgta caagctcatt gatgtttatg 240  
aagttcagga ttttaccac ttaccatttg ctgctagaga gttaatgatc ataaaggctg 300  
cggcaaatgc tacagctcga agggatgtct tagatattgc tcagattttt gaggcacaga 360  
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<210> 37895

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-029-Q1-K1-F12

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tatgaaactg aaagaagagg attagggaaa agaactctgg gggatcctca agttacaatg 180  
ggtagttcaa tggtagtgga tggctcattt gtatcatcta tgtcctctga taactcagtc 240  
gaagaaagca gctttcaaca actgcaggat gctgttagtc aggtatcatg gggtactagt 300  
tttctttttg atttctttta atttcccata tagcataaac tctagcctac agcagtacag 360  
ccccttcatt ntgggtattgc aaatccatgc tgtgtttgta gtttcttttt ttttcttttg 420  
gggttttttg atctctct 438

<210> 37896

<211> 56

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-F2

<400> 37896

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<210> 37897  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-F3

<400> 37897

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gtgcaacgac gccggcgccg aggccgaggc cgaggaggat gaggcgggcg cgcccatggc 180  
ggcggggcgtg gacggctacg gctgcgacga gtcccgcatg tacgagttca aggtccggcg 240  
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<210> 37898  
<211> 364  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-029-Q1-K1-F4

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ccgacgcccc ggcttcggtg cggctctccg cagcagcgca ggccggctgcg atccagccct 180  
cctccccgcg cttcttcttc tcctcgctgg ccgggaccaa ccgggcctcc ccgcatcgcc 240  
gcacgcgcat tgccgtcgat ctctccgacg agtcgcgctt cgccgtcaag tgggcccgtgc 300  
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tcta 364

<210> 37899  
<211> 123  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-F5

<400> 37899

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agtcattttac acaattcgat gccaaatctt aacattatct ttcgccatca catgctctga 120

aat 123

<210> 37900

<211> 257

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-F6

<400> 37900

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agtaggaggc aaggatcaat ggcgccgccg cggatctcct tcttgagct ctgcctctcc 120

ttcctctgct tcgtggtctt ctactacttg cacatcagat ccaagcggaa gaaccttttc 180

gtgccgctgg actggccgct ggtgggcatg ctcccgggcc ttcttgggaa cctttcacca 240

ccttcacgac tgggatc 257

<210> 37901

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-D9

<400> 37901

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ctcttcatcg acggcaagtt cgtcgacgcc gtctccggca agacgttcga gacctgggac 180

cctcgacccg gcgaggtgat cgccagcatc gcggagggag gcaaggccga cgtcgacctc 240

gccgtcaagg ccgcccggga ggccttcgac aacggggcct ggcccaggat gacgggatac 300

gagcgtggtc ggatcctcca caagttcgcg gacctgatcg acgagcacg 349

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<211> 347  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-C2

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ttactagagc acgcatccaa ctattggaac cattgattaa gggatcaggt ggagtggagt 180  
acctgcagaa gtcttttctg ggtcgcgtgtg gttccccctt tgatgcgtta gcttctctcc 240  
cttcaactgc ccggtggatt ttctctttga aagatgtcgt ggaagaacaa tggaatgaac 300  
atgtcagctc ggtatcaatt ctgccagaag cagaccatgt tcagaca 347

<210> 37903  
<211> 279  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-C3

<400> 37903

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ataacggcca gcaccatgtg ccacatggc aattcaatgt ccagcttaat ggcaccaggt 180  
ggaccttaaa accatagacc aaaccaaact tgaacaccta ccttccccat tcttacgcct 240  
tattaaaccg caccaaggca aaccaatgct tccaaaaca 279

<210> 37904  
<211> 309  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-C4

<400> 37904

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gtaagagttt ttaccagcat ccaggagaag actcccttaa gtgtgatcat gggctccgca 180  
atcggcatcg tcatgaatgg tacgctcttg ggtcagatag tactgtacca gaaacccgct 240  
tcaaagaaac cgaagaaagg agatttagcc accttgagaa acctccaaaa ggtctttccg 300  
ggtgggtaa 309

<210> 37905  
<211> 246  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-C5

<400> 37905

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aactacccga ccgtgagcgc cgagtacagc taggctgtgg acaaggccag gcgcaagctt 180  
cgagccctca tcgccgagaa gagctgcacc ccgctcatgc tccgtcttac gtggcactac 240  
gcggggg 246

<210> 37906  
<211> 378  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-C6

<400> 37906

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ggacacgatt tccgtccaga ttaccgtggt ctaagatgcc tcaaacagaa ctttcctacg 180  
gtcccgatca tggctttaac cgcaacagca accgaatctg ttcgtaagga cgttctttgt 240  
gccttgagga tccccaacgc tgtggtactt gaaaagagct tcgacagact gaacctcaac 300  
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cgcttcatga atgagtct 378

<210> 37907  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-C7

<400> 37907

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cgagaaaacgc gtcttcacca tgaacgcgga ccctttgctc aagaaccgta acgggccggc 180  
cgagttgccc tacacgtgc tctaccccaa cacctgcgac acgaacggcg acgccaccgg 240  
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gtacggtcgt cgcactagtt gtttgcgttt ccccgttccg ttccgtgaag tgtggttctc 360  
acttgccggy tattgtgcaa atagccaagt actcettacg gaagtcgcta cgtgaggact 420  
gttgtaataa 430

<210> 37908  
<211> 409  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-C8

<400> 37908

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agaagatagc cgaaaagttg aaggaagcaa aggggttgag caagcaagaa gaacaggat 180  
gtggaggtaa gtagtttggt atgggtctgg tatgccttca tcaccaatt tacagactac 240  
ttatatccga tcaatatggg ccaattacaa tccacgggac atacggcaca atttcacaat 300  
actatgacca ccctgagtga tgcacatgcg tgacaggatg gcggtggcga actggcgaga 360  
tgagaaaaag ggaaagcggc aggggattat gagccaggat ggaaccacc 409

<210> 37909  
<211> 348  
<212> DNA



<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-C9

<400> 37909

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tccttctatt cggctgctgc cgaatagaat ggtggatctg actgatgatg acaataactag 180

gctacctgcc cggaatcatc taccgacct atgtaccact tggctctgac tctcaccagt 240

atgagaggta atactacacg ctgggttaga gcatctgggt gtgccaatcc agtctaaaca 300

cttgattgga aatcactatc tctttctcta tgcggatcgt gtgacatg 348

<210> 37910

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-D1

<400> 37910

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ccgcgccgcg gccggcctcg cgctcctcct ggccgtcctt gcccggcgcg cgtcggcgcg 180

cggcgacctg gccagctgg gcgcccgt cgagacgcg cgcgggcgcg ggcaggacga 240

cgtgccgchg cggcacggtg ggcgagtga tggagtacct ggacgtagac gcggagggcg 300

aggcggacgt ggcgggcatg gccaccggcg gcggcgcgcg caagcgccgg gtgctgcagg 360

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<210> 37911

<211> 236

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-D10

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tttcagggtgg cgtgggtcgaa agcgatgaca aatatttttac caggcttgct aagaatataa 120  
 tatctgtata ctaaacatat acattctccc ttcttgataa gaagtctttg aaggtagaaa 180  
 atgtagtgca cttcagctgg tctccactg atcctatcat atctctgatc gtgcct 236

<210> 37912  
 <211> 339  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-D11

<400> 37912

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 tctgcgccgt cttgttagca gcagtggttg cccttgccca tggtgcgga caggaaacag 180  
 cgtcaatggg ggtcggcttg gccaagtgcg ccgactgcac caggaagaac atgaaagctg 240  
 atgcggcatt caacggcctt caagtggctg tcaagtgcaa gaacgccgac ggcgtcttcg 300  
 agaccaaggc cctcgggtgag gttgacaagt ccggcagct 339

<210> 37913  
 <211> 378  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-029-Q1-K1-D12

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 gaagcactaa tggttcagca aaagaaatcc ctaatgacaa gcctgccgctc actaagccta 180  
 gtccctatga agaactgatt ggagacatca aggctagcct aggaagtgct ccgacccta 240  
 cccagctcaa ggctgtgctg gcctcatcaa cccttctctc ccaggacgtg atgaatgctc 300  
 tcctggaagc tctcttttgt ggtgtgggta aaggattcac caagaggttg tgaagaacan 360  
 gaagtacctt gcagttgc 378

<210> 37914  
 <211> 426  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-D2

<400> 37914

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gtggagaccg tatacagggg cgcgcgaaa ggccgtgggc tggtgattgc tccaaaggac 180
tactccacca agtaccgtta ctaagaaggc aggcatcccc cttatgcaat ctattgggga 240
tgtttacacg gacagttagt ccgacagggtg atccctaact gtatcttggc ataccctaata 300
aattcaagtt gctggcttga gtgatgctta tccatggctt ggcatgccat agtgaacatg 360
taaacctgtg atttgagggtg attattcgag tgtaaagaaa ccaggattgc gttcggctat 420
gactat 426
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<210> 37915  
 <211> 414  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-D3

<400> 37915

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gtggctctcc tctcggcgtg cgcggtcccc aacctctcgt ctgctgctg cctgcctgcc 120
tgctgcaaa aaggagtttg tcatggcgctc taagcgcac ctcaaggagc tgaaggacct 180
gcagaaagac cccccacat catgcagtgc aggtcctgct ggtgaggaca tgtttcattg 240
gcaagcaaca attatgggac cacctgacag tccctatgct ggtggtgtct tcttagtgaa 300
cattcatttc ccgccagatt accccttcaa accttcaaag gtttctttca agacaaaggt 360
cttccatcct aatatcaaca gcaatggaag tatatgcctt gacattctca aaga 414
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<210> 37916  
 <211> 418  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-D4

<400> 37916

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caacaccgag gcagggctta aaaagcttga tgagtacctt ctcaactcgca gctacatcac 180  
tggtaccaa gcttccaagg atgacttggc tgtctacact ttcgtttcgt ctgctccctc 240  
gtccaagtat atcaacgtag caaggtgggt taatcacatt gatgcgctcg tgaggctgag 300  
cggaattact gcagagggcc aaggtgtgaa ggttgaatcc tcagcagttc cttcagcccc 360  
aactccagat gttgctgaag cacaggcccc agctgctgag gaggaagacg atgatgat 418

<210> 37917

<211> 163

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-D6

<400> 37917

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tagcacagcc tggagctatt caccattt gccgcccctc aggatttttag agcaggcgaa 120  
tgctctaaaa tggatgatgat ggtgttttct ctttatggtt cac 163

<210> 37918

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-D7

<400> 37918

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gtcgtggttg ccaccgcgac caccctggac ctgctcccgg ccaagggcgc caagcgcggg 120  
ttttctgacg aggcgcccc ggcatcgact gttgccactg ccggaaggga aaagaaggtg 180  
gcagacgagg agttcgacta gaagaaagtg gcagcgaccc cggaaccggg cgacaaagca 240  
caagtgggtg ga 252

<210> 37919  
<211> 324  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-C12

<400> 37919

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gcggggtcag acgacatatt gggtagataa tttgctatgc tttgtgcact tatgttttta 120  
gggctttcta gttgaaccgg tgccctgtt ctgtttttaa aattgcctct atgtaagagg 180  
ctgtgcagta taagtactag cccctttgtt ttctgtcgac cgcattgcat ggtttggttc 240  
gaacctttcg atgtcgtagt tctatatgat aatacattca agtgattttg ataaaaaaaa 300  
aaaatatcca aaaaaaaagg gcgg 324

<210> 37920  
<211> 402  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-D8

<400> 37920

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acctcgtgga ggtgtcgaag gctaccgagt tattgacaaa cgggctaaca aaacagaagg 120  
aaatgctgac catgagaacg ttggtgatga agatgatgac gaagtatggg gggaagatga 180  
ggatggaggc aatgacaata atggtgatgg aggatcagat gagccatcgg gcacagaaaa 240  
tgaaaatccc agtgataaga atgaattgcc tacggataag agtgatcaac cagggcacia 300  
gcagcagaat gggcaatctc tctcaaatga aggacgagac aaatcttcaa gtgatatacc 360  
accttgctct actatcttca ttgcaaattt gggacataca tg 402

<210> 37921  
<211> 100  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-A5

<400> 37921

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ctggttcagt agtgatgctt actttcttgt cgttgttgct 100

<210> 37922

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-A6

<400> 37922

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actatcttat atttcattta taaataatga aataatgata accaaggtga ccgattggaa 120  
atgattatag ctgagagtta ttggatccag tattattagt agtttggttt acacagcaga 180  
aattaagaaa tctgtgcatt tgctgatatg agaacagaag ggtactagct ggttttggtt 240  
agattttggg cccctgaata cattgtgatg ttttgcccc tcgattagtg cagtctgctt 300  
ggtacg 306

<210> 37923

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-A7

<400> 37923

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gaaaactcct ctggagcatc gaccgactct ccacctgagg accgccagct ccttcctccg 120  
cctcgacaag cgttggagag atggtgaaga gaagcaagaa gagcaagagc aagcgcgtca 180  
cgttgcggca gaagcacaag gtgctgcgca aggtgaagga gcatgacatg gaaaaaatgg 240  
ttacaaaggc tgatccaagt aaacggattg tactacttca caacaagata gatcttgttc 300  
ctaaggaagc ggtagagaag tggcttacat atctgagaga agaaatgcc acaattgcgt 360  
ttaagtgtaa tacccaagag cagcggacca agccgggatg gaaatcttca aaactagata 420  
aaacaaa 427

<210> 37924  
 <211> 402  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-029-Q1-K1-A8  
  
 <400> 37924

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acctgccttg ttcgagtggg agaaggatat aaacgggcaa ttgagtggcc aaagagcagg   120
gacaaggat ggtacagcaa tggtcctcac actaggcttg cagagtacaa ggggcatcaa   180
aattgggtta aggtctcagg tgactatcta ttgttccttg ggggtgggac ttaggtcaag   240
aatgggtggc tccactatat tgatactatt caggacgcac taactgatat tgcattggggc   300
aaacgaaacc cggatcatatt cgatgctggc tgtagagttg ccagctgtgg aagctacatg   360
tttgataaag atgcgcttac catgtgtttt gtcctaaaag at                               402
  
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<210> 37925  
 <211> 438  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-029-Q1-K1-A9  
  
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gggggaaagg ttttgcagta tgtattcttc ttgtcctaatt tttctgtgat ttcacttgtc   120
aagacagttc actactttgc tgtaaacgag ataagctatc accaggggtt tagttgtgtt   180
tcttactttc tttctgcaac atctctatct gattagttga aatgacacca gagtgaatta   240
tgcaagagat atttgtaata cttaagtttc tagtttatgc cctgaattta aattgctcca   300
tttcaaacat ttatttgatt aaaattgggtc tctcgcaatt tatatgtag cttttctgat   360
aaaaaaagaa aactgtatg tgtttctttc agttgggtga atattttctg tagtgcattg   420
gagcacgata ccccttgg                               438
  
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<210> 37926  
 <211> 393

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-B1

<400> 37926

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cccacgcgtc cgcccacgcg tccgccact cgttttccca cgcgtccggc cgcaaggtga   60
gcccaattgc ctatcctgga acaggaaaaa cagcaatagc taagggggcc cgctgtatc  120
taccatctat gagggcgctt ccacatgaat cagtattaca catctgtatc tgaaacatgt  180
cagacactgt gccgcaaggt taatcccaga tgatgaaaag aaactgcgta caccatgtcc  240
atcagaaata ctagttccaa ttccgacaca tgcgctgggc atcaaggtca acaccgggag  300
tttttattat tattattcca gaatgcgcac ggtaatttga aaatgaaatt gtggtggaaa  360
ctgtggaatc cgctaatecg gtgcggatct gca                                393
  
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<210> 37927  
 <211> 408  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-B11

<400> 37927

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gccaccaatg gccactgccg aggtagctgg atcgatcgac cctagtcttc gattcatata  180
tacatacatg tgcacggatc gtttggatcc gaataatacc tatatatgaa taatggtctc  240
tgtctcatcg atgatcggtc ggtcgatcgc tcatcttcga tgagacgtac agcgatggac  300
gtgcggatca tatatctcct atgttaacaa tggaggacgc taagattaag tgtggcgcta  360
agatggaaga gtacatgctt tgatttttac gcgccgttca cgtgtgca                                408
  
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<210> 37928  
 <211> 363  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-B12

<400> 37928



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gctttgaacc attctaacga gagacagttt gaacaatcct ctcaactggt agatgtactg 120  
ccggaacact tgtttgatga gaatttcaac aaggaagttc ccaagcgcg gcaaagggcgc 180  
agtcgcggtg gcagagggca tgggcgtggc aaccatcaat ataacaatca ccatacaaat 240  
aaccagcacc accagaacaa ccagccgcag tacaataacc atggcaacaa ccaccttggc 300  
gggaaccgtg gcagccttca ctctgttga actacaccga ataacctgat aaccaagctt 360  
gag 363

<210> 37929  
<211> 431  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-B3

<400> 37929

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gttgcttacg ctctgtaacg tgagcgtagt gtaccacccg cggcggccgg agatgagccc 120  
gctccaggcc atcagagctg cctgcggcga agaccactac atgtgccgct tccaggaatt 180  
tggtgtcgct gaagctgaat ttgctctata tgacatcaag tgggtgttta agaagacatt 240  
tggcatgcgc aagccagctc ctattattct gcccaaggac aagagcttct ttgactctct 300  
tgattcagat ggaacttgct caccatggct atcagaggaa gatatttctt actatgcaga 360  
aaaatttgca aaaacaggct ttactggaag acttaactac tacagggtgca tagacaggag 420  
ttgggagctt t 431

<210> 37930  
<211> 240  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-029-Q1-K1-B4

<400> 37930

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 gggttacatc actggacagg tacctgatgc caaggacgct cagggcaatt tggaacccca 180  
 atggggggcct caccattctc tggcagtggg ggtacaaact tatatgaatt gaaaccagat 240

<210> 37931

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-B5

<400> 37931

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 ataaatttaa actaaagaaa cggtaaaaat aaaaaaaaaa aaaaaaaaaa aaaaaggtct 120  
 gccgtttttc agcttccata ctttcgtttc cgtacttgcc acttcatttt tcttttttcg 180  
 tgtttcctta tttctgttca ttggcttttc tttttacaac ttcgtgactt ggaaaacctt 240  
 gcctttttccc atttttatac cccttgcccc cttattcccc ttttgccatc ctcagcttta 300  
 tatgccttta ggccttaacc ctttttccct tcccaccttt ttttc 345

<210> 37932

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-B6

<400> 37932

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 ggacttttgc ttctaaacgc cgctgtctct gtgtatctcg ttccttttcg aaaattttga 120  
 atccgatcga tccgcgtggt ttcacacact tagctagcaa gatcgacgct atcacgctac 180  
 tgggtgccct ggatctgttg aagttgtgcc tgtaagcttc aaggtggctg ggtgtgtgtg 240  
 gcttcaaaat ttgggcggga acgggcgcat cctggaccga gcaaacgcgc attcgatctg 300  
 gctgattttt tc 312

<210> 37933

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-B7

<400> 37933

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tggtgcgggc gctcgtgaac ctaagcgtcg tgtaccaccc gcggcggccg gagatgagcc 120  
cgctccaggc catcagagct gcctgcggcg aagaccacta catgtgccgc ttccaggaat 180  
ttggtgttgc tgaagctgaa tttgctctat atgacatcaa gtgggtgttt aagaagacat 240  
ttggcatgcg caagccagct cctcttattc tgcccaagga caagagcttc tttgactctc 300  
ttgattcaga tggaacttgt ccaccatggc tatcagagga agatatttct tactatgcag 360  
aaaaatttgc aaaaacaggc tttactggag gacttaacta ctacaggtgc atagacagga 420  
gttggggagc 429

<210> 37934

<211> 368

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-029-Q1-K1-B8

<400> 37934

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aaatggaacc cttgcaaggg cagctggtcc caatggagca tcaactgggg gaaaagaaag 180  
ctcgggagcg gagggagggt ggctctgact attcggggaa ggggtgtctcc aaggctgtga 240  
acaatgtgaa ttctgttatt ggacctgctc tgattggcaa ggaccctaca gcacagactg 300  
agattgataa cttcatggtt caacaacttg atgggaccaa aaatgagtgg ggatggtgca 360  
agcaaaaag 368

<210> 37935

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-C10

<400> 37935

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cacgcgcgcg cgcgccgggg cgtgctcccc ctctgtctcg tcgccgcgct cgtggcggcg 180

ttgccggcca cctgcgcgcg ggccaggagc aagaagtcgt acacggccat cttcagcttc 240

ggggactcgc tctccgacgc cggcaacctc atcgtcaacg gcacgcccåa ggcgctcacc 300

accgcgcgcc cttcttacgg gatga 325

<210> 37936

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-A4

<400> 37936

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tattcaggag cacattgatc ttggaatcaa gtatgacccg tctactggta tttatggcat 120

ggacttttac gtcgttctgg aacgagctgg ttatcgtgtt gcacgccggc gcaggtgcaa 180

gtcccgcggt ggcatccagc acagggtgac caaagaagac gccatgaagt gggtccaggc 240

gaagtacgag ggtgtcatcc tcaacaaggc ccaaaacacc tcgtaatcat tgatagtcac 300

caaacgactt gcccttttagc actccagttc aagtataatc tgtgtactat gaattctgtg 360

tttggtggat accaaatgca ctgccagttt tgcgtctgtg ccataattc ccatctgatc 420

agactagcag t 431

<210> 37937

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-H10

<400> 37937

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agatcgccga gggggtgaaa aacctcaccg ttaccggaga tgcggcggct tcaggcggag 180  
 aggggcagag gaggggcggc ggcggcagca gcaaccgcat ccagggtgcc aacaccaaga 240  
 agccccctctt cttctacgtc aacctcgcca agaggtatat gcaacagcac gacgatgtag 300  
 agctatccgc tcttgggatg gccatagcaa cagttgtgac cgtggcagaa attctgaaga 360  
 acaatggatt tgccgttgaa aagaaaatta ggacctctac tgttgaaata aacgacgaat 420  
 caag 424

<210> 37938  
 <211> 293  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-H11

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 cagtccggcc aggacgtccg cacgcagaac gtgatggctt gcggggcggg ggccaacatc 180  
 gtcaaatact cgctcggccc cgttgggtctc gacaagatgc tagtggatga tattgggtgat 240  
 gttacaatca ctaatgatgg agcaaccata ctttaagatgt tggaagttga gca 293

<210> 37939  
 <211> 334  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-H12

<400> 37939  
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 ttcgatcata gagcttgcaa acgaggtgag gaaggtgctc aacagaacaa aggagaccaa 180  
 gatcactggg gccaatgctt ccctgaaatc acatgcccct cttgtgcacc tgtccgcgct 240  
 tccagaaggc accgttgtgg actcgagata gcgagagcct tggacgttgg acctctactc 300  
 ggaatttact tccagctctt gcatgtttgt ggcc 334

<210> 37940  
 <211> 403  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-028-Q1-K1-H3  
  
 <400> 37940

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cttctattct tgggtctctt ctagatatct tgcttcttaa gaaagatgtg aagcaaaagt  180
cgcgtttatt acaacctctt ttccagattc tatcgaagct tctttctgat caatgggtct  240
cagatattgg tagtcagtat aacgaccaac aagatacctc atctgaaatc cctgatttat  300
ctaactttgt caaagaagtt caacacttgg tactgctggc cctcaaagat attacagata  360
ccctaccatc gggtcaccat gatgcaatgg tcaacagctc cca                               403
  
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<210> 37941  
 <211> 283  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-028-Q1-K1-H4  
  
 <400> 37941

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ttgttactgt cgttgtgaaa gtgagtcagt gggacttggt aggttgtctt gttcagatgt  120
aatgcacata gagttgtgga acaccgaaac atgttgtagg ggggtggggcg gtagcagagg  180
gtggacagta acagtagcgc gccagccct ctacggccta ccctttgaaa gccttggttg  240
tagccaatgc agcttgctgt aaagaagtgg catttttttt gtc                               283
  
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<210> 37942  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-028-Q1-K1-H5  
  
 <400> 37942

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gtatgccagt tttcaatatg tgcattccatt ggtggtatta cgtgacggaa ggggtggtcct 180  
atataaagaa gacatgcagc ttttacagat ctatgaccca agaactaaca cactcacaga 240  
ttcagtggag gtgtgccatt tttctgcagt tgctttgttt ggaggaaatc tactgagctt 300  
atagtatatt tttgtcgtg ggcataatct atggcaaact gcattcttac cgacataagc 360  
tgcaaagtga aagcttagga cactagtagc ttagctaata ataggataga attcccaaat 420  
ctatcttggg aag 433

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<211> 402  
<212> DNA  
<213> Zea mays  
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<400> 37943

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agacattggc gacccaagtg tgaggttcat cacctacaac cacaaggtga acggcaaacg 180  
ggtggtgcgc ttcaagtcga accatctcgg caagttctgg aggcggagcc ccaactggat 240  
ctggggccgac accgacgaca ccagcaccaa caactccgac accctgttcg aggtcatcaa 300  
gatcgacgag gatggtgtgt acgcgtccg gaacctcggc aacaaccact tctgccacag 360  
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<210> 37944  
<211> 319  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-028-Q1-K1-H7  
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gcttcggggg ctctgtggcg gacgccgacg tcggggagca ggcggcgcgc ctcgaggcca 120

gcctccaggg cacccggtgg gccgccgccg tcaacgacgc gcgcagggcc gacccggcct 180  
cgccctacac cgtcgcgcag tacaactcgc ccttcgagtt caccggcagg gtcaacgaga 240  
tctggatgct cttcgacgcc ggcgaacccg gccaacgacc ccagtatgtg atgcgattcc 300  
aagcgtgctc tcggggcac 319

<210> 37945

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-H8

<400> 37945

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ctgaggcgaa gaagcccaag gccgcggaga cggacgggtgc tggaagcagt ggtgacaagg 180  
atgagaaaga ggatgaaaag gaggagacag gccacgtcgc gaggaccca agggagacat 240  
agacctgttt ttgacgtgtt ttagctcttc tggcgtctgc ttattttgag acctcttaat 300  
atttgtgagt gtataatagg agcttatgtc acctctgcgg cttccccccg tgctgatttg 360  
tttttaatgg ttagaccagg acccttcacg agcgtaaaaa ataaa 405

<210> 37946

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-A1

<400> 37946

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cttatgaggc ctatgaagaa aagttcggtc catctagtgg ttcttttgca caaaggaatt 180  
caaaagtgca gaagaaaact atgaacatgc aaccaacaca gccgacaaat gataatgtca 240  
tgaacagaca tcctcaaaca ttgacaagaa gtgcttctta tccttgtag aacaatgaat 300  
ctgaaagaag aggattaggg aaaagaactc tgggggatcc tcaagttaca atgggtactt 360



caatggtagt ggatggctca tttgtatcat ccatgtcctc tgatatctct ggtgaagaaa 420  
 gtagcttttcg acaac 435

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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-029-Q1-K1-A10  
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 gtggcagttg acctcaacaa gagtaccaca agcattgatc atgacctcga cacaattggc 180  
 ttcaaaccat acaagagatg ttctgtggaa gcgaaggaga ataggggtgcc ggctagcgac 240  
 gaggttggtg ccaagaggat tcgtcttgat agtgaagcat caacatgagc gatttctaca 300  
 tggttaccgc tcggactttc tctgccgcca tgaagtttat gacaaagttg tatttacatc 360  
 taaactagta taggactta 379

<210> 37948  
 <211> 430  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-029-Q1-K1-A11  
 <400> 37948

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 aaggaagctg cagacaaaca ttggagtgat ggtgccttgg aggcagacct gcgacgagct 120  
 gacttggttg ttaaacgacg tgccatggaa gacgctttca tggcattgaa gtttgttcag 180  
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 tctcgtacaa attcaacagg gtttattaca cttgagaaga acgggaaggc tcttgaactg 300  
 tttcctggtg aagtttctgc tgatcagatt tatgccatag aggaagcata ccagagtatg 360  
 gcatctgcct tttctgaagc tgatggtatt gactacacag atccttagga gctttgaatg 420  
 ttgtagcaac 430

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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-029-Q1-K1-A12  
  
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 attcccaatt gatctaattc gccggatcgg acagcaactt ttggaatctg ttgcattcat 180  
 gcatcgtctt cagctaattc atactgatct gaaaccagag aacatcctcc tcgtttcttc 240  
 agattatgtc aagttacctg atcccaagga cggatcattc tcaaggaaac tgccaaaaac 300  
 aagtgccatt aaattgattg actttggaag tgcagcatac cattaccagg atcgcaactta 360  
 ca 362

<210> 37950  
 <211> 308  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-029-Q1-K1-A2  
  
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 atcagcaacg gcgagccagg gcctgcgcag aacgtcgaca agtccaccag cctggcccgg 240  
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 aaagggac 308

<210> 37951  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-028-Q1-K1-G9

<400> 37951

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tcacgtttgtg gtgatgcccc gtgtcaacat tgacaagcta gactatttcc tgaatgagtt 180

agtggacaaa cgggcgactt ggtaccagga cgggataagc cagccaccct gcattgccag 240

agacgtaggt gttgagaact gtctctgtgg ccttcacaag tagcgagcct tttgctttgc 300

aagtgggttc actcttgagt cgagttaaaa agtgttatgt tgtactgtgt tcattcttga 360

gttgagttaa aaagtgttat gttgtactgt gttcatgcgt tctgcttctg tgtttctcca 420

cagtgt 426

<210> 37952

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-F3

<400> 37952

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aagaccggcg ctaagaagcc caaggccgct gccaaagccca aagctaagac ccccgccaag 180

gcgaagcccc ccacaaagcc caagcccgcc gcgaagccga aagccgtagt gaaaccgaag 240

acaccgcca agccaaggc caagccagct gccaaaggca agccaagac cgccggcgct 300

aagccgaagc cacttgctaa gaaggccggc cgccccgcca aggcggcgaa gacgtcggcc 360

aaagacacgc caggaagaa gggccctgcc aagaaggccg ctccctcgaa gaaggcggcg 420

accccggtgc ggaaagcgcc gt 442

<210> 37953

<211> 440

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 37953

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agcggcagga cggcggacga catcgtcgac ttcatacaaga agagcaagga gaccgcaggc 180

gccgtcacca ccaccaccac ccaggcgcca ccggcatccg agaaggcagc cgccgccgag 240

cccgtcaagg acgagctgtg agcatccaag gtgtggacgg ctgtggctgc gtaagcatgg 300

gaggaaaacc tggcgctaac gtgccttcaa cgctagttt ttgcgggacc agagggagag 360

agagagaggg acggagttag agagagaggg gatctgcgac gtgttntgct ctgcggcggc 420

atgtctgtgt atcccattga 440

<210> 37954

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-F5

<400> 37954

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gccggcttga gaagcggatt cttgtaccgc ttccctgaagg tgaagcaagg caagcgatgt 180

ttgaggaact tctgccagca actacctcaa agttagaaat cccgtacgac atactagttg 240

aaaagactga aggttactct gggtcagata ttcgtctcgt gtgcaaagaa gctgccatgc 300

aaccactgag acgtctcatg tcagttcttg aagccagtga cgagttgggt ccggaggaag 360

aactgcctga ggttggccct ctgaaacctg atgatattga acttgcatta aggaacacta 420

ggccgtcagc aca 433

<210> 37955

<211> 433

<212> DNA

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<223> unsure at all n locations

<223> Clone ID: LIB3069-028-Q1-K1-F7

<400> 37955

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 gggcgccaac aagttctcgg agcggcagcc catcggcacg gcggcgcagg gcgccggggc 180  
 cggggacgac gacaaggact acaaggagcc cccgccggcg ccgctgttcg agccccggga 240  
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 cctctacatc accgtectca ccgtcatggg cgtctccaag tccacctcca agtgcgccac 360  
 cgtcggcatc cagggcatcg cctggtcctt cggagggatg atcttcgcgc tcgtctactg 420  
 caccgncggc atc 433

<210> 37956

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-F9

<400> 37956

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 ttcaacttca acccggttg gccgccggcg aagaccccat tttggaaaat ccaaattggaa 180  
 cacccttggc ccattaacaa tcagaatccg tttctggggc taacctctta acagggcccc 240  
 cttggcaaac ccgggcaaca acattgcgct tcggggcgct ccattggccg ttggaaacct 300  
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<210> 37957

<211> 469

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-G1

<400> 37957

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 aactccacag gtcgagacat ctgacatctg gattcagcaa gctagagaga tgccacctat 180

gcaggttccct tcatattaca acataccagg tcaagcaaca ccaggtgctt ttgtgcaaaa 240  
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gtaccatcct cagcaacctc cctctattgt aagtccgcac cccatggtgc atcaacaggt 360  
gccatcggcc attggtccca atgttggggg tgggggtggca gcttcaggcc cgcaagttgg 420  
agcttatcag caaccacagc ttggccatat gaattggaga cccagcttt 469

<210> 37958

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-G10

<400> 37958

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gcatgcatca acttcctggg gcttctctgc accatcccca tcgccgcgac ggggctgtgg 180  
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aggggcctgc tcgcctgcta cctcttcgcg atggccgccc tcatcacgtt cctcctcgcc 360  
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<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-028-Q1-K1-G11

<400> 37959

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gagaggcatg gctgctccga agctcgcgac gctggcgctg gccgtgctcc tggcggcgac 180  
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<210> 37960  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-G12

<400> 37960

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<210> 37961  
 <211> 443  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-G2

<400> 37961

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 aaaaagaatt ctttgcttct atggttgtgg atgctgtcct tgccattggc aatgatgaca 180  
 ggcttaatct tattgggatt aaaaaggttc ctggaggtag catgagagac tcttttttgg 240  
 tgaatgggtg tgcattcaag aagacgtttt catatgcagg atttgagcaa caaccaaaga 300  
 agtcccttaa tcaaagatt cttttgttaa acattgaact agaattgaaa tctgagaagg 360  
 aaaatgcaga gatcagattg tctgaccctc tgcaatacca atcaattgtt gatgctgagt 420  
 ggaacattat ttatgacaaa ctg 443

<210> 37962  
 <211> 427  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-G3

<400> 37962

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aaagggtgaca tttccaccct tgagtgccct tctacaggag gaagggtgcc tatcaccaat 180

ggtactgcac tctgggtcaag aacaatgccg tactattcaa aagggtgcttt ggtcacagaa 240

gttactcccc agaagacaat aactcccaag gttgttagaa acagcaagct agaaaaccta 300

agctatgcaa aagaaagggg ggaacttcaa gtggatagaa agcaaaagtc aagtcttttt 360

aacctgtcct cgaagaaaac attgacttcc aacgttagag atgaccaagg tcttgaaatg 420

ttcaaaa 427

<210> 37963

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-G4

<400> 37963

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ctggttctgt tatcatcatt attttctctgg tgtggggcaa tcatgtcaga gagcgagtta 120

gcagtaataa aaccagaggc attgaaaact tatactctggc ttcagtgcct tgatggctcc 180

atacaacaag tggaggaaga agttgccatg ttctgcccta tgatatgtcg ggagataatg 240

aaaaatggga cagggtcatc taagaatcat gctatagttc taccgcaaag agttaatccg 300

gcaagtttga gtttgattct tgattattgt cggtttcatc aggtccctgg gcgctcaaac 360

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<211> 436

<212> DNA

<213> Zea mays

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<400> 37964



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 ctgggcaaga gcgcttcagg acaatcacta gcagctacta ccgcggagct catggaatca 360  
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<210> 37965

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-G6

<400> 37965

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 aaaaaaaaaa aaaaaaaaaa acgccgacca cttaaaagaa cccaacataa cttacatggc 180  
 cccacaaaac aaaaacattc aaaaagttcc cccaaaatca actaaaatac cccagtagaa 240  
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<210> 37966

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-G7

<400> 37966

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aagtccatgt attctgatag agtttttctg tctcacatca ccagtgatcc tgctatgggc 360  
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aatatgtggg accgtgc 437

<210> 37967  
<211> 442  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-028-Q1-K1-F2  
<400> 37967

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gaagcaaggc agctagtga tc 442

<210> 37968  
<211> 441  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-028-Q1-K1-D7  
<400> 37968

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ctcacctacc gaaagcgtca cagctacgcg acaaaatcca atcagaccgc ggtcgtgaag 180  
acccaggtg ggaagcttgt gtaccaatac accaagaaga gggcgagcgg tcccaagtgc 240

cccgtcaccg ggaagaagat ccaggggata cccacttga gacctgccga gtacaagaag 300  
 tccaggttgt ctaggaacca caggactggt aaccgtcctt atggtggagt actctctgga 360  
 attgctgtta gggagagaat tatccgtgct ttcttgggtg aggagcagaa gattgtcaag 420  
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<210> 37969

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-D8

<400> 37969

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<210> 37970

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-D9

<400> 37970

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 ggctcgtctg cctctcccgt tctccttctt ctctctccca gaagatctga tccatcatcg 180  
 aggactcgcc gggaagaatc aaggatatat agataataaa caaacaaggg ttctctccaga 240  
 gccagagga gggaagtcac cggccgtcgg cggggaggag atgtcggacg gcgcgggctc 300

ccggacgggc gtcgctggcg cgctgggcct ctcggtcacc tcgtcggtgg ccatcgtcac 360  
ctgcaacaag tacctcatca gactctagg cttcttcttt gcgacgacgc tgacgagctg 420  
gc 422

<210> 37971  
<211> 431  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-028-Q1-K1-E1  
<400> 37971

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tcggcgaggg ccgcatcacc atgcgcaaga ccgtgggcaa gcccaaggctg gcggcgctccg 180  
gcagcccctg gtacggcccc gaccgcgtca agtacctcgg ccccttctcc ggcgagcccc 240  
cgagctacct caccggcgag ttccccggcg actacggctg ggacaccgnc gggctgtccg 300  
ccgaccccga gacattcgcc aagaaccgcg agctggaagt gatccactcc cgctgggcca 360  
tgctcggcgc gctcggctgc gtcttccccg agctgctctt ccgcaacggc gtcaagtctg 420  
gcgaggccgt c 431

<210> 37972  
<211> 386  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-028-Q1-K1-E10  
<400> 37972

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tggcctcacg catacgcggt ccggttagcc gaggagggga acagcagaaa tgcgaactcg 180  
tacagcgtga gaccaaccga gatcgaaaca gtcgatattc ctgggcacgg tgcgatcatc 240  
accctaagag agactctaaa cgatgtggag tctggcagtg ccaggagatt gtgagatggg 300  
tctgcaggtg tggagattga tgtctcagat accatgggag ttgcttgcac atgtgtacag 360

gtagatctat tggagagctg ttgact

386

<210> 37973

<211> 208

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-E11

<400> 37973

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gaatgatacc atcgtagttt tagtagtcct tcgtggcctt cagtttgtct tcaaagagtt 120

cttgttgcct cttcacatac atgtaaacac tgtaaatacc gttacctgaa taaagcttca 180

gcctgctagg ctacaagcag ggttcact 208

<210> 37974

<211> 306

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-028-Q1-K1-E12

<400> 37974

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gacgccaaag ccggtggcct tctcctcgtg ccctgccttc ctctggtgta tctgtggtgg 180

cgtcgccagg gcgacggcgc cgcggacgcg gacacggaag agcggccggt cgtgagcgt 240

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gaggcg 306

<210> 37975

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-E2

<400> 37975

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 ctgacgagct ggatgaccag ctcgagggtc catgccgggt gatccgagca gtgatctgag 180  
 cccagtctctg gatccaagcg ggaatccata cttgatctcc tacatcagct acgcgatcga 240  
 tcgatccacc gatagatgct gcggcctcag ccacaatgtg agacatagct gtggatatac 300  
 ctgctgctat gcgaaatggg catgcataga ggacttctat gagacatact atgatagaga 360  
 tgatgggtcat atagatggtc atataggagg tcttgatgga catggtgatg gtcatgggtgc 420  
 agattatgt 429

<210> 37976  
 <211> 357  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-028-Q1-K1-E4  
 <400> 37976

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 aatggccggg ccgaggatcg atttccgaca gcaggaaggg tgcagcatgt aaagggggaa 180  
 cagatgagat catgtttggg ttgggtcccc gttgtatatg tagttatgta tcagccagtc 240  
 ctttgtttgt aaattaccag tatttagaag taataagaaa atgggggttt acgtgtacgt 300  
 ttctgtgct ctgtcatctg aagcaataaa actggttagc aagaccggaa gagcgac 357

<210> 37977  
 <211> 442  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-028-Q1-K1-E5  
 <400> 37977

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 gtcttactat gacattagag ctgcacagga cgcagtgaga gcagtccata acaaacctct 120  
 ggggctgatg aaacttgatg ttcaattttc ccttcctaag gaaaatgttc caaacaaga 180

tcccaacaat ggaacactgg tggatatctt tattgactct tccatctcca gccatgatct 240  
tctccaaaaa tttagtgttt atggcgatgt caaggagatt tacaagtctc ctacaagctg 300  
caataagaaa tttgtagaat tctatgatat cagagcagca caagaagcac tgaatgacct 360  
caacaagggt gaaatatcat gtcacaaaat caaagttgag catagctttt ctggaggagc 420  
aggatcttgc ttcgcagagc aa 442

<210> 37978  
<211> 361  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-028-Q1-K1-E6

<400> 37978

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taactgtaag ctctcgatga gccgattatt aagggtgctgc ccaacatgcc cgtttaagct 180  
gtgcctaagt tgctgtcaga agatacgtga aggaacatg tcggacaaca ccctgaaga 240  
taaattcaag aatcggttga ttcaacanga gtctgtccat gaggatggca gtattacttg 300  
cccttcgatt gagctgggtg gatgtgggtga cgccatgctg aacctaatat attcatctcc 360  
a 361

<210> 37979  
<211> 90  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-E7

<400> 37979

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gggctttgct gaatatgaaa gttgaacagt 90

<210> 37980  
<211> 260  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-E8

<400> 37980

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agcttatcca aacgatcaca tcatctacct tcacacactc acatcaacct cacatcaaat 120  
ccttccccctt cctttttctac acctttctact tgtaacaccc ctccccca tcaacttaaac 180  
gatcatcaaa ctctttctaca actatccact aaagctattc aataccaatc ccgtcactgg 240  
catatatact aatctcaaaa 260

<210> 37981

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-E9

<400> 37981

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cggaacgca gaggcgggag cgacgggaag gtcgggagag aagacatgag gaagccaaaa 120  
ggagaacgag ttcggaaggg agcggatggc aatggctctg gtccagctat tgctggcgct 180  
cctaatcgtc tctgcaccg cgcaatcgcc gtacgcgtcg aaagctccta cgatcagcgc 240  
ctcggcgccg gggggctctg tcgcgccacc gacaacggcg gtctcggcgc cgcaggcgtc 300  
tgcacagccg ccgacaacag tcgccgctgt ctgggcctca agcctcggcc gtagcaccaa 360  
caaaagcagc cttggcgcca catgcctatg ctgcgccgcc aactacagc 409

<210> 37982

<211> 335

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-028-Q1-K1-F1

<400> 37982

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ggcgccctaca acgacccgag ctaggacatc gtggagatga agtcggagga ggcctaccgg 120



ctggtgctgc accagtggt ccgagggctg gagcgcaacg tggaccccg caagtcgcgg 180  
 gtgttcttcg tgaccgcttc tccgacgcac acggactgca gagcgtgggg cgacgacgac 240  
 acggaggggca ggagcaactg ttacaaccag acgtcgtega tcagcgccgn ctcgtectac 300  
 cgtggcggca cgagccatga gatgctgcgc gcaac 335

<210> 37983

<211> 127

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-F10

<400> 37983

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 cgtattggta cccctgttac tgagtataat tttgttttca tatctatcct tacagacgat 120  
 tgcactt 127

<210> 37984

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-F11

<400> 37984

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 gcggctttga cacggtagtg ggcctgacgg cgggtggcgct ggcgcacacg ctggtggtgg 120  
 ccgtcatggt gtcagcgggg ctgcacgtct ccggcggcca catcaaccg gccgtgacgc 180  
 tgggcctcgc cgccacgggc cgcacacgc tgttcgcctc cgcgctctac gtggccgccc 240  
 agctgctcgg ctccacgctc gctgcctcc tctcgtctt cctcgcagtt gccgacagcg 300  
 gcgtgcccg gcacgcgctg ggcgccggcg tcggcgcgct ccggggcgct ctcattggagg 360  
 ccgtgctcac cttctcgtg ctcttcgcgg tctacgccac cgtcgtcgac ccgcgccgcg 420  
 ccgtccgc 428

<210> 37985

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-F12

<400> 37985

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atggtttag tag catatgctct tgttgcaata aaaaaaatgt ggcagttgtt tggctggtga 120

ctgcctatta tgagcctgcg gcaataaatg ttcagcaa at tgccgagtaa acattgagag 180

ctccagaaca tggagagaaa gtgtgtattg tatatttgcg ttgttcctgt aaagcatgtt 240

tagtcaaact cgaatattgt ctataacacc gagtaa atct caggcggaaa catgggcgag 300

ctttct 306

<210> 37986

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-D6

<400> 37986

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tttttttttt tttttttccg gcatctttta agactttaga taacagcttc acacattttt 120

caaatccaca aaagaactgg aagtcaaaaa aagaaaagaa tgggtactgct gatggacaga 180

atgtgtgcaa acctatttcc tgcagcat tt acatattaca aagattaca aaatcaccat 240

acatcaagtt acgtcaaaa acaatgcat gacacagcta agaaaaaaca aatagagact 300

actaacatct actggatgct aagctgcaa tgaggtactg tgccggcagg aagaacaatt 360

gaacagatgg tgcgtgaat ccaacctaat gcttgacaga atctccttta cagccaagcc 420

ggcaaccaag acgtgagtt 440

<210> 37987

<211> 413

<212> DNA

<213> Zea mays

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<400> 37987

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 catgtttgaa accttcagtg ttctgctat gtatggtgct attcaagctg tgctttccct 180  
 atatgctagt ggccgtacca ctggcatcgt cctggattct ggagaatggg gtcagtcaca 240  
 ctgtcccaat ctatgaaagc tacgcccttc cacatgccat tcttcgtctc gatcttgctg 300  
 gcagggacct cactgattcc ctcatgaaga tcctcaccga gaggggctac tcttttataa 360  
 acactgccga gcgggaaaat tgtccgtgac atcaatgaaa agcttgcata tgt 413

<210> 37988

<211> 156

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-C2

<400> 37988

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 gtggcctctg aacctcgaa ccggttgata gttgttgttt tcctagctgt gtcgggctcg 120  
 gtgcagcatg ctctaattgt tgattacctc aagaat 156

<210> 37989

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-C3

<400> 37989

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 gcctagctac ctcaccttac cttacgcagg cacactgcac acacacccat ggtgggtggcg 180  
 gcgatgcggc ggccgtgcgc tgtgccagcg ctgctgggtg cggcggcgac agcgacgcta 240  
 gtgcttctgc tgctgctgtc accgtcgagc gcg 273

<210> 37990

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-C4

<400> 37990

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tcctctccaa gcttgtgcct gaatactccc cttccttgga tgaggacggt atttgtaaaa 180  
cagcatttga gattatattt gctttcgatg aagccatctc tcttggaac aaggaaaatg 240  
tgacagtgc acaagttaaa caatattgtg agatggagag ccatgaagag aaggcacaca 300  
agctgatgat gcaagccaaa atcaacgaaa ccaaggatct catgaagaag agggctaattg 360  
aacttgacaa aatgaggatg gaaagaggca agcttgacaa aggaggatac tcatcaatat 420  
ctggtccacg cgtgattgaa aa 442

<210> 37991

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-C6

<400> 37991

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agctctggtc aagttgtccg aaatgattgc aatactgatt gttgttcata tgatctgaag 180  
ctgggaaaag taaattgtga caactgctgt gggtagagca tccattacac cctcatatc 240  
agcattgcca ttctatttca cttatttggg tgctactggg cgactcaatt cattctcgca 300  
tgctcttcaa ctgtggttgc gggatcagtt gcttcatact actgggcccc tggtgaaata 360  
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<210> 37992

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-C7

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gggtcattac tcgatgatcg tttggcttcg tggatatggcg tttcatctgg ttgatgcagt 120

tctcttatgg aacttgctg ctcttatagt ttcctttttg aagaggatta aaacttacat 180

caaattacgg aaggcactta gttcactcga cggagcactt ccagatgcta cttatgatga 240

aatttgtgca tatgatgatg agtgtgccat ctgcagggga ccgatgggtc gagctaaaaa 300

gttgtcctgc aaccatctat ttcactctagc ttgtttacga tcatggttgg atcaaggatt 360

aatggaaggt tactcctgcc caacttgctg gagaccgctc gtattgtcat ctgaagggca 420

aacaaggtct ccgatt 436

<210> 37993

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-C8

<400> 37993

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accggttgcc gatttgggtt ggcggtacaa ggagccaccg tgctaacctc agtttgtatg 240

cttgcttttt cttgttcgca cttcgtgtct tcagctttcc ttcattttgt tcttgtccac 300

tcggttttcg tatggatctt tgattgtctg aggctctgga tctatgaact aggagaaatg 360

cgataatata ttgcaaatga tttagagttt caggcttaat cgcgagcttg gtatatgatt 420

aatttat 427

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<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-C9

<400> 37994

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 cacctgaggt gctatcccg cgcgagtatg atggaaagct tgcagacgta tggtcctgtg 180  
 ggggtgactct ttacgtcatg cttgtgggag cataccatt tgaagaccca gatgacccca 240  
 agaatatatg caagaccatt cagcaaataa tgcaagtgc atacaagata ccagatcatg 300  
 tccacatata tacggaatgc cagcaactta ttgcccgat ctttgttgcc aatccaatga 360  
 ggagaatcac aatgaaggaa ataaagagcc atccatgggt tttgaagaac ctaccacggg 420  
 aactcacgga gactgcacaa 440

<210> 37995  
 <211> 435  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-028-Q1-K1-D1  
 <400> 37995

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 gagttctagg tagagaatcg gttttacttg tctcagcccg gggctctgctg cgtctggtgg 120  
 tgggtgaaggg gagaaattcg tgagatctgt tccggatcag gcgtgcgagc tcgggaatca 180  
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 caaaaagtct agcagtagtc gttctatgat gtatgaagct ccccttggct acagcattga 300  
 ggacgttcga cctgccggaa gcgtgaaaaa attccagtct ggtgcttact ccaactgcgc 360  
 gaaagaacca ttctgatatt ccttttggct tctcaatct agtagtttaa gatttctttt 420  
 ctgacacttt gattc 435

<210> 37996  
 <211> 418  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-028-Q1-K1-D10  
 <400> 37996

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aggcatccgt cagacaccgt ggccgcggct gcgcgacaca gcctcacgcc cagatcgagc 120  
 gggcgagccc aagctcccat ccggcgatcc ccgaactcccc gtcgtccgtc cggccgagggc 180  
 ccgagctcgt cgcgccgctg gacggaccac ggaacgggga gtcgggtcag ctccctgctc 240  
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 accgcgccgc gtcggtccga gctctcaccg gtcaccgcgc tccctgctcc caggtgccag 360  
 ccaccgagcc gggcagctga ccgtaccgcg ccgtcgtcag accgagcgcc gtccgagc 418

<210> 37997

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-D11

<400> 37997

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 cgatgctggg ttggcttatt gctgcaccaa ttgtactggc cgtgctgtac gccgtttcgt 180  
 tcccttgttt caaggtcctg gtcaacaggc ttgggtggat tcttcgagc cccaggaccc 240  
 caatcaaagc ggtgtagcca gtgcctggcc ggatcctctg cagttacatc cgtggacata 300  
 gctgcagatg tgtcgtgac atccggggcc ggccgtggcg tggcccaaaa cgtcagtgc 360  
 tcgacgtaat tgcagaggaa acggtttcag ccagtgaggc atgctgaatg cccttgaat 420  
 tgtgtgc 427

<210> 37998

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-D12

<400> 37998

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 ttacatcact gtacagttac ctgatgcaa ggacgctaag gtcaatttgg aaccagatgg 180

tgtcttcaca ttctctggca gtgttggtac aaacttatat gaattgaaac tagatctgaa 240  
 tgacaaagta aacgttgagg ctagcaaaat aagtgtgggt gtcagggtcca tattctgtat 300  
 tgtagaaaaa gctgaggcca aatggtggaa gaaacttggt cgagatgatc aaagggcacc 360  
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 caacttggga tggatggac 439

<210> 37999  
 <211> 334  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-028-Q1-K1-D3  
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 cggtcatggt atcgctcgtc aaggtggcca tggacggcgg catgaaaccg ctcgatgatc 180  
 tcacctgca gcagctcacc gncgccgtct tctcgcgcc aatcgcatc ttcaaggaga 240  
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<210> 38000  
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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 gagcgagcgc accgcggatc tccctcccgg ccccgccgcg cgcaccggtg aagacgacga 180  
 gccctcgtg aatggtggga gcccgcgca cgtccgtcgc ctgcgagccg cagccggagg 240  
 aggctcctt ccgcggcttc gggtactgca tgcagggtg gtaccaccgc tgcacgggtc 300



tgcacccctg aaccccgccg ncacttgctt ctttgatttg atttcattcg gtctgttcgg 360  
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<210> 38001

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-D5

<400> 38001

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 gtactatcat gaccatctct aaggatagag ttaagccatc tccgttgccc gacagttgga 180  
 agctgaagga gatctttgct acgggcatcg tgcttggaag ctaccttgct ctgatgactg 240  
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 cgatcaagga cagcgagcat gagatgatgt ccgccctgta cttcaagtg agtatcgtga 360  
 gccaggctct gatcttcgtc acccgttccc gtaacttgct cttcgtggag cgccctgggc 420  
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<210> 38002

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-C10

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 tacattgcac ccaaggtgct atcacctccc gactatgata caaagcttcc atacaaatga 180  
 ccctgtcttg agactcttca catcatgctt ataacatcat acccatttta ataccagct 240  
 aaccccacta atatacacat caccattcac caaataatgc aagagcaata caagatacca 300  
 caacatgtgc acatatcta 319

<210> 38003  
 <211> 376  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-028-Q1-K1-A4  
  
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 gtgcgaggag acgatgccct atgacgtgaa catcgaagcg gagatgcgga ggcggcagca 180  
 gcagcaccag gaggcctacg acgaggatga ggacatgccg ggccggcgcg agaggggtgca 240  
 gtgcgcccag cagtaggcag cagcttggtg gcagtgataa aatattcgac ggcggcgga 300  
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<210> 38004  
 <211> 435  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 ccacttacta ggctgcagcg gagctgagga tatcgacgct gcacttgacc ggcgcagggga 240  
 agccattggt agcggatgaag ctctgagaag gctcatgagt tacataaaga tctcgcacaa 300  
 agtgtcctag tggtgaccg tgagtctgtg accatgtact gactgtacaa ttttggcggtg 360  
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 gccaccatga aaaag 435

<210> 38005  
 <211> 404

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-028-Q1-K1-A7  
  
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 tgctcgcata cctgctcctc gccgtcgctt ttcccggtgc tgctctgcgg cagcaggtga 180  
 agaaaggcgg cggcgggaagc ggaagcggaa gcagtgttag cggaagcgga agcggcaacc 240  
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 aggctgcct caccttatgt aacaagtgtc gcgccaagtg cctctgcgtg ccaccgggggt 360  
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<210> 38006  
 <211> 325  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-028-Q1-K1-A8  
  
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 agctctgtaa attattcgga tggaatgtat cgaaatgtgc atgtgggtcca actgcatttt 180  
 cctgttcctt ttctgtggcg tcttttttgg cagaacgcga aatgcggcgc gcgtagcgcc 240  
 accgattgta gagttgctat tcctactgcc ggagtactcc atgtgtgttg gatattcttg 300  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-028-Q1-K1-A9  
  
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gtgcctaaac cttggaaact tgtttgactc agagcaggag ttcaaaagag aaacaagggt 120  
tacatcaaaa tgtcccccca aagaaattgt ccgcaagatc gaggaagctg caaaacctct 180  
aggatttgat gttcagaaga aaaattacaa gttgaggtc gaaaaggtaa aggcagggag 240  
gaagggaaac ctcaacgttg ctactgagat actgcaagtt gcgccctctc tccacatggt 300  
agaagtccga aaagcaaagg gtgacactct ggaatttcac aagttctaca agaacctttc 360  
caagaccttg aaagacgtcg tctggaaatc cgacgatctt caaacgcaac atgc 414

<210> 38008

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-B1

<400> 38008

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agaacgactg tagtacctcc gtagcgtatg ccaagtctct ggaacctgaa acagtggggtt 180  
gagacttata atggtaagca tgcagcacat tgcacacgct tgcttgctac tctcctaaga 240  
cttaactttg ttaccggagt agctgtcgag actatggaca tatatactca tatgtacatg 300  
cgaacagtca cctatggaca tcgacataga acatgggtcat gctgtttag acaagcaatg 360  
gagccatgca ctgacagta 379

<210> 38009

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-B10

<400> 38009

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gagggcacac cagctttgag cgactacgat cgaatggatg gccgccaatg gcgagaagaa 120  
gatgataacc ctgaaaagct ccgatggcga ggagtctgat gaggaagagg ccgaggctat 180  
ggagtccggag accatccgcc acatgatcga ggatgactgc gccgacaacg gcacccgtct 240

ttctaacggt aactacgaga tcctatgcaa ggtaatcgaa tcctgctgca tgcacgtaca 300

<210> 38010  
<211> 427  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-B11

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gaaggcgacg tcaaggagct ccaaggctgg gctgcagttt cccgtcggca ggatcgctcg 180  
gttcctcaag gccggcaagt acgccgagcg cgtgggcgcc ggcgcccctg tctacctcgc 240  
cgctgtcctc gactacctcg ccgtgaggt cctggagctt gctgggaacg cagcgaggga 300  
taacaagaag acccgcatcg tgccgcgtca catccagctc gccgtgcgca acgacgagga 360  
gctgaccaag ctgcttggtg gtgccaccat cgcgagcggc ggcgttatgc ccaacatcca 420  
ccagcac 427

<210> 38011  
<211> 430  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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gtaacatgcc agacaatggt gcagaaaatg gcaccgaggg aggaggctct agagttaa 180  
atgctgtgat ggatgttccc atcaccttac cttcgttgaa accagctttt gacaagccta 240  
accccaaaca aggcattggt atgctgtcat ggagcagcga cagccactat ttcttcacca 300  
ggaatgacaa catgccaaact gttcttttga tatgggatat atgccgnctt gagcttgccg 360  
ctgtgctcgt gcagaaagat ccaatccgtg ctgcagcatg ggaccctacc tgcacacgcc 420

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430

<210> 38012

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-B2

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caggcggcgg cgacgcggc gtcgtggtgc gtggcgctgt cgctggtggc gatgctggtg 180

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ggcgcgggcg tgctggcgcg gccgtgcgag gagatctacg tggtggcgga gggcgagacg 300

ctgcacagca tcagcgacaa gtgcggcgac cctctcatcc tggagcggaa cccgcacgtg 360

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<210> 38013

<211> 300

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-028-Q1-K1-B3

<400> 38013

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agtgcaccag ctggtcgggc gtgtggacct gcgacgacct nctaccaag tgcgccgnca 240

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-B5

<400> 38014

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gccaccaatg gccactgccg aggtccagac cccgaccgtc gtggcggccg aggaagcgcc 180  
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ggccgaagcc gaggtctgtg ctccctgctga tcccaggag cttcccgcgg ccgagcagca 300  
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<210> 38015

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-B6

<400> 38015

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tcggcgtaga tgaaacacaa actagcagaa tgcagattgt taggattttt ttttttcagg 180  
cggcgggggtg gagccattca ttgtcatggt gacaggactc ataatagaaa tacaggtaac 240  
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<210> 38016

<211> 444

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-028-Q1-K1-B7

<400> 38016

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cctcgtccca atcccacatc gtctccgaaa tctctccatc taccggcggc gcaagcccga 180  
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 ctccgtggca ggcacagacg accatgaagg cgctgggtgg gacgggtgctt ctctnctct 360  
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 <211> 435  
 <212> DNA  
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<223> Clone ID: LIB3069-028-Q1-K1-B9

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 <211> 417  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-C1

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 atgaagtact tgtgaaatat gaggcccgtc tggaagatgg tactgttgta tccaagtctg 180



aggggggttga gtttactgtg aaagatggct acttttgtcc tgccctggcc aaagctgtca 240  
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 agaagggtag accagcagct ggagaagaag gtgctgtgcc gtcaaagtct tcgctgctca 360  
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<210> 38019  
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 <213> Zea mays  
 <223> Clone ID: LIB3069-027-Q1-K1-H10  
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<210> 38020  
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 <213> Zea mays  
 <223> unsure at all n locations  
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 agattgctag caattccata tctcggaaca atcatcattt gatgggattg ctttcttatg 180  
 cagaggacac aaataattca tttgagggaa ccagaaaatc acaaacttca ttttcagctt 240  
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 atttcaagtt tcataatgct aaaggattgc tgcaactgat tcgtcattcg ttggagtcta 360  
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<210> 38021  
 <211> 415

<212> DNA  
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 <223> unsure at all n locations  
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 <400> 38021  
  
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 aatcaaggat tctgttgtgg ccggtttcca gtgggcatcg aaggatggtg cacttgctga 360  
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<210> 38022  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-027-Q1-K1-H2  
  
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 gtccgctaga cctggcagcg gtccgcaacc catagaatat cacgaagagc gaagatctaa 420  
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<210> 38023  
 <211> 360  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-H3

<400> 38023

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tcatctagac ctctctcgct atagtcttac atgatgatgc acttcgtgat cgctaccaat 180  
ttacgggtgta taagttgctc gaattgttca agattagatt tctttatttg ctgatgctcg 240  
gtgaagttca agaagttcga agtatttaag ggtaccattc tgcatttagt gttcgggtat 300  
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<210> 38024

<211> 494

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-H5

<400> 38024

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actcgacggt agcttatagt cagtcagtat actattcttc gcaagcaacg cgtccactca 240  
cacgcgtatt gattggaatt ggaggtgctg gcatgtcgac tcgttatgaa gttcatcagc 300  
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aaccgcgtgc acgggcacgg cggcctgacc actggacgcg caactttcgc atgcgggttg 420  
gtttgcgtta aatgcatggc gattcgcgta ggtctcgcgc gctgacgacg ccgcatctcg 480  
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<210> 38025

<211> 496

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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 acccagttca tagcacagag tgcgaataag ccaaggaacc ccccgaggag gtcggcgaag 180  
 ccgccgacgc ctgcccggtc atccccgacg acggggagccc taagggcccc ggatacgccg 240  
 aacctgtcat cgccgaagtc gtctagaagg tctccgaacc cgccgggtac gattcgacgg 300  
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 aggataatgg cctccctaag aagcctgtct taaggctagg taatattgcy cccaccaagg 420  
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 tacgcgagaga cactat 496

<210> 38026  
 <211> 498  
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 cccatttca tcgacgattg tgttgtgaca gcaacctaat tcagcatgag aggaattgcc 420  
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<210> 38028

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-H9

<400> 38028

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 <212> DNA  
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<210> 38032  
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 <212> DNA  
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cgtaggggta ggaattctcc tcctagtatc gacgccgaga agtatgctgt cgaggtcgat 420  
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<210> 38034

<211> 484

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-F6

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ctgccccata atgctgcat cgggaaaatt tcggtgccat ttaatccaac tgttccgtag 480  
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<210> 38035

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-F7

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<210> 38036

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-F8

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attaaatcca tgcattctcg taccttattc tacagtctcc tcacagcgct attcataacct 300  
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<210> 38037

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-F9

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<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-027-Q1-K1-G1  
  
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<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
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<210> 38040  
<211> 388

<212> DNA  
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 <223> unsure at all n locations  
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<211> 436

<212> DNA

<213> Zea mays

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<211> 499

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-G8

<400> 38046

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<211> 381  
<212> DNA  
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<223> Clone ID: LIB3069-027-Q1-K1-D4

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<210> 38049

<211> 478

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-027-Q1-K1-D5

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<210> 38050

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-D6

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 <212> DNA  
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 <223> unsure at all n locations

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<210> 38056

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-E12

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<210> 38057

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-E2

<400> 38057

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 aagaagtacc caagtagtgg cttaataaat cgtttaagta cctaagagct actataattg 240  
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<210> 38060

<211> 384  
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 <213> Zea mays  
 <223> unsure at all n locations  
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<210> 38065  
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 <213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-F11

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<210> 38066

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 38066

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cgacatcgga agctcggaat atgtatcgct atccgtctgc cctaaggatt cgtttcgcgt 240

taaccaagca gcatgttgct gcatggctag tctcgagtca gtctcctgcg tctgtgacgg 300

tgctggagcg ggaaacgggt acgggggcgg agtctggtac gggaacgggt ggtatgcatt 360

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<210> 38067

<211> 228

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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agctgctggg tctgatgacg attccttagt agaatagttc gagtcatgtg attacgttgg 180

agctgttgcc taaggatctg atcattgtat actagcctgc gttgagtt 228

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 <223> Clone ID: LIB3069-027-Q1-K1-B7  
  
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<223> Clone ID: LIB3069-027-Q1-K1-B8

<400> 38071

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<223> Clone ID: LIB3069-027-Q1-K1-B9

<400> 38072

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 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3069-027-Q1-K1-C10

<400> 38073

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<210> 38074

<211> 436

<212> DNA

<213> Zea mays

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<210> 38075

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-C12

<400> 38075

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 <213> Zea mays  
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<210> 38077  
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 <213> Zea mays  
 <223> Clone ID: LIB3069-027-Q1-K1-C3  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-C4

<400> 38078

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<210> 38079  
<211> 459  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-C5

<400> 38079

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<210> 38080  
<211> 478  
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<223> unsure at all n locations

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<400> 38080

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<210> 38081

<211> 247

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-C8

<400> 38081

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agaaatacac tccccattaa agtagcggaa cgggtccaata gtacgtctcg gataacgcca 180  
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<210> 38082

<211> 379

<212> DNA

<213> Zea mays

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<400> 38082

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gtaccagggc gagggcgcgg gcatgggccc tgctgctggc atggatgagg atgccccgtc 180  
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 gtttggtttg gtgaggtgtc aagtgcctga actctgaagg ttgtttgtga gataagtgat 300  
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atgctccgca ctgtcaagta acaggtgagg tctttccagt gtagttttgc agctgatctc 360  
gacagcaaca cacctgtcac cgaaatgctt ctgtgacctt agatatcaac cgatgcacga 420  
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<400> 38085

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ttcgtactgg aaagttggga gtaattcgcc ttccctaagg cggccacatc tggattacgg 180  
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gatctgaggc caaaattcga agaataagga gtggaggacg gtccaccggt tctagcggaa 360  
cacgccgagt aaatata 377

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<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-027-Q1-K1-A10  
  
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 agccatggcc cgttgggcag gtcaagaaaa accttcaatc cttggctttg gctctagaca 300  
 gttgctatatt cttgattgca tgtacaactt gcatcaagaa tacatacaca tcgatgcctt 360  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-027-Q1-K1-A11  
  
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 acagaggaac cagacagcta tcacgagttc aggaggcaac taatggcgat aataaggact 180  
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 gagcgacaaa ggcagagttc ttctgcaaga cattcgaaga agttcatgag aaacttgttc 300  
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<210> 38089  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-A12

<400> 38089

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gttacagtgc tcagggggct tgcaagtttg gcttctatga gttctttaag aagtattact 180  
cggacatcgc agggcctgag tatgccc aaa agtacaagac tctaattctac ctgcgaggat 240  
ctgcatctgc tgaggtaatt gctgatgtgg ctctctgccc ttttgaagct gtgaagggtac 300  
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cgatctgaag gtggtcttgg gc 382

<210> 38090

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-A2

<400> 38090

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agtgaatgtc cgagtccatc gcgtccctaa gtgtcggatt ctacgccgta agaagagtct 240  
aggtttcata gtcccttagt taggaggcgg cccctaggac gcgcaaaccg agcgtacttc 300  
ctctttccta ggcttacgac ccgcaagaga gccggacccc ggtacttagc cccctatag 360  
aatactatatt acccgagtcg gagaaacatg tttccgtgaa ggggccctac gcgacgcgtc 420  
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<210> 38091

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-A3

<400> 38091



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aattcgtgtt tgtagtctca tctggttcat gagcatcggtg agaagcttca ttctgttagt 360  
gaatagaagt aagcggcgctc ggataatacg aaagaccatg tcggctaggt ttcggctaata 420  
gtcgctg 427

<210> 38092  
<211> 256  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-027-Q1-K1-A4  
<400> 38092

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ctggaagtct gaggttgagg acttatacac acagtactcg ctccccacat caggccccag 180  
ccccgggag aactcatatg gtgtacaagt caggcagtcc ctctaacaa ctccggctta 240  
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<210> 38093  
<211> 315  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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aagtcggtat ggtggacgat ggagaatcct cgtgttgggg ctagtgtgct actcgtatgc 180

gaacggagca agtcggatgg tgtcgttaagt agtactgggg aagacgcgtg ggctacggta 240  
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<210> 38094

<211> 476

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-A6

<400> 38094

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 ccacacacga aaaggttaaa ataccgatac tgctaagcaa ggtaataata ctcccggcta 240  
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 aggtagcctc cggaggtagc aaaagtacga ggccactcgg cgaagttttt gcagacatga 360  
 agggtcgcga aaaagtcggc ctctcttctt tatttaagga aagaagaccc gtagcctcga 420  
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<210> 38095

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-A7

<400> 38095

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 cgccgccttc ggcacccgca cgaaccgggc cacgaaaacg aagagccgcy ccacgagccg 240  
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 aaagggtggt tgtctcagag gacttaagtc catgcatgtg cgtacgtgat gctacagtct 360

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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-A8

<400> 38096

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tcacactgtc ccgtccacca ctcacacct 449

<210> 38097  
<211> 449  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-A9

<400> 38097

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<211> 325  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-B1

<400> 38098

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<210> 38099  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-B2

<400> 38099

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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-H9

<400> 38100

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 gcatgtaaca tcctgctgcc tgcgaatttc ttt 453

<210> 38101  
 <211> 445  
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 <213> Zea mays  
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<210> 38102  
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 <212> DNA  
 <213> Zea mays  
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<210> 38103  
 <211> 403  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 catattttcc gtagtatgcc ggccaagaa attccatccg ttcagaccgt ggcggtcggg 300  
 aaccataggc agtcngaaca gggccacggc ggacgtatcg ctctgaagtt ggctacctcc 360  
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<210> 38104  
 <211> 487  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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gcatagaagt aggtaggcga tgcctgagtc ggcgaatgcg gcgaattagg cgactattaa 420  
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<210> 38105  
 <211> 436  
 <212> DNA  
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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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<211> 433  
<212> DNA  
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<223> Clone ID: LIB3069-026-Q1-K1-H1

<400> 38107

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aatccgtaga ggggtacttaa gccggtcgtc gggaaggcat acaaattatc acggaagtaa 360  
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gacgagccta cta 433

<210> 38108  
<211> 224  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-H10

<400> 38108

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<210> 38109  
<211> 443  
<212> DNA



<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-H11

<400> 38109

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gcaagtcgac cggcggcaag gcgccgcgga agcagctggc caccaaggcg gcgcgcaagt 180
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agcgcctggt tcgcgagatc gcgcaggact tcaagacgga cctgcggttc cagtcgtcgc 360
cgggtggcgcc gctgcaggag gccgcggagg cgtacctggt ggggctcttc gaggacacca 420
acctctgcgc catccacgcc aag 443

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<210> 38110

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-H12

<400> 38110

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ccaccacggg cagcgtctag ctatgttgct ggccctcatt gtgtcattct tgctcgtgct 180
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gctgctaaac gacgatggca cgcccaatga cgacgtcatc agaaagctgt tccgcaagat 360
cgacatggac cagagcgaat ccctgtcccg tgctgagctg cagccctca tcgtcgggat 420
caacttcgag gagggtgact ttgacaggac gga 453

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<210> 38111

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-H2

<400> 38111

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agtcattacg acggttacga ccataacata gaggccgaac ttcgatagta gatcgccagg 180  
gtacgaaccg gacacaatcg atcgagaggg gtacatcacg cggatacga ttaaaccaaa 240  
gtcgtc 246

<210> 38112

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-H3

<400> 38112

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cgccgtgtga gagtgtggta gtgtgtgaga cctgtttttc ctctcctctt caggaagtag 180  
gaagtaagtt gattgtctgt cgagtgttgt tgttgacggg tgctgtggcg ttgacgaagt 240  
ctcggagggc ggagatttgt ggtaagggtg ttggtgtggg gtttgatgat ttttcgtgtg 300  
cttcggcgat ggcgattgct tctgggagtg ttggtttgcc gtgtcctact gcttctgagg 360  
gtgatatggc tgttgtgtct acttgtggtg tgtcgtgtcg tcatgtttg 409

<210> 38113

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-H4

<400> 38113

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actaggagaa cggcatttgg tattacctga cctactcgta gcggatatca cgaggaggtc 180

ttcggagtagc gtcgggcgcct tcgggtatac acacttatca ctaccgtcgc gtcacgaggc 240  
cacgttctta ttataatatg ccgagcaaga gaccggtgag tatagggcga cacttcctta 300  
cggagtatgt ccgctagcaa tctacgatac aaatcacgga gataccatcg tctacattaa 360  
gaacgtcgac tacggaaggg agtcacctat aaacattccg cataatccag acgccaatta 420  
gcataacgcg tctaaactcg tcaactcccag 450

<210> 38114  
<211> 378  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 38114

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gacgcggtag atgtgtagtc cgctcatcct tactgccgtg gcggctgctg ttgatgtttc 180  
ttttgatcgg gtggcgggtg tggtgggtggg gtggcgtatg atgcttatgt tagctaagat 240  
gcatgataag cgtactgtgt cgttgatgta nggtgttatg tcgggtgcgga ttcattgatgt 300  
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ggttcggggg gcgaatgt 378

<210> 38115  
<211> 459  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-026-Q1-K1-H8  
<400> 38115

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aaccgcagca cgggccaggc cgccgctgga actcactctt ttgcagccg cataacgtta 180  
aaacacagcc ggaagcccca gtcggcatat taccagggcg tcgcaccaat tccccccatc 240  
tccgcgtagc aaagacctcc cccgctaaaa aaaaaaaaaa aggggtggtg tctcagagga 300

cttaagtcca tgcattgtgcg tacgtgatgc tacagtctcc tcacagcgct attcaaact 360  
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aactgttccg tagtatactt tttccctggt agtcggtgc 459

<210> 38116  
<211> 375  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-026-Q1-K1-G3  
<400> 38116

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ttctgtttca gaccacgtcg tcgtccgtag aggagaggcg tttatcattc ctccggtaaa 180  
cgcccaattt cctagcgcaa agtaacgccc cgatatccag tagcgagtcg gcaaccccg 240  
cctcccttcc gttcaatcgt catactttgt agtcgcgctc ccagaaccgg tctcggcata 300  
caagacgcga gttacggcca ccattagggc cagaccact cccgtctctc gccacctaag 360  
tcgactaagc acctt 375

<210> 38117  
<211> 426  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 38117

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cagtttact gccacggaga ccgagaacac cgtcgcgtcc cgtgttggcg tggatgccg 120  
tgtcgggagc aagatcgacg gtgggagcaa ccatctttcg cccccgcgt tggaaatccc 180  
ttcggccaac ttctacttct tccccatgca caaggtggcn ctgatcacg gagccctggg 240  
ggtggttaagg tcacccatgg aggggagtta tccccccca cctaatacata gaatactaga 300  
agccaagaaa gcgatggtgg gatatatagg gaaaaaagga gtcgagtgtc agcatagtgt 360

tagctccctt ctggtctagt acctttttta gaggatagtt ctactaaacc acangagaag 420  
aagatg 426

<210> 38118  
<211> 454  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-026-Q1-K1-F12  
  
<400> 38118

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aatggaggac atcctggcca gcttaaaaag ggagatgtca actcctcaga accgcaggct 180  
gtaccaacct catgaaggta acgaagatca aagagtagag cagaaaggcg tgtcccttag 240  
atgtgtcgtc atgtaataat gtacatttga attgagcagc gagatgccga gcttgagcga 300  
accctcttag ggcattgtta ggaacaatcc ccttcaattc ccttgctttc aaagaagccc 360  
tgtaggaacc ctntcttagc tcaccttaat cgcaataaag tgtcgatgac tgttaaattg 420  
cctgcacggc tgcacaccat gtaacagcaa ccga 454

<210> 38119  
<211> 441  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-026-Q1-K1-F2  
  
<400> 38119

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tctttgtcat tgagtcagga ggtacgattc ctggtggctt aatacgggca agatatgcgg 120  
cacgggagtc ggggtgtaagt ctaagattta tagaaggaat tagaggcggg tcgataaagt 180  
tcataagaag agttactctg gtaatgagcg gaagaaattt cccgtcgggc tactctatgt 240  
aaagggaact gcttccgaga agactggtac cgagggtcaag tagttcaatc tcgtcacttg 300  
caagcgtgtc tgcgcatagt cggcgaagaa tgggaagaag accgtcgttc ccgcgttaaa 360

tgacggccgt ccgaatcata ctgaggagaa tgacgacgcg tcgaccgtcg gacctngctg 420  
 caagggttac gtcgcgggag a 441

<210> 38120  
 <211> 411  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-026-Q1-K1-F3  
 <400> 38120

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 ggaagtattg tattaggatt tccgcctgat gttgttggtc tcgactcttg tgaggccgct 180  
 aggacctaac acgctgatta gtatacctgt catccttcgt atgtcgccgg gtaacgccag 240  
 aataatgtag gttccttaga tagtggcgaa gagtttcctg ctctcaagtc ctccctagtta 300  
 agccatgaag gccttaagtt cgaagattct taagaaatcg gacgctcttg ttacgggtcg 360  
 acataaggcg aagtccgctg ggttcgaagg cgaagagtat gagcccgacg t 411

<210> 38121  
 <211> 417  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-026-Q1-K1-F4  
 <400> 38121

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 catacggtag gtcgttctac gcattgcggc gacgcggcct ttaaggatgc gaatgtcgtc 180  
 gcgggtataa ctaagattaa gtgtattact tagcctgcgg atcggcggtt gatcggtcct 240  
 aagcgtggaa ctaatcatta gttctttagt gctgcttttg gtggcgattc ggttaaggcg 300  
 tagtgcggtg cgcgtacgac tcttaatctt attagcgccg cggaggctcc tctttgtacc 360  
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<210> 38122

<211> 463  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-F5

<400> 38122

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cgggtcacgg cgccgcctca tttataccgg gcggtacaat actaagagcc gtcgtctccg 180  
gccctactca ccccgccgtc ctagaagtct ccgaatccgc cgaaaactcg ggaaacacta 240  
acgatcctct cggaagata aggtcacctt cagcgccggt cgctgtcgca tccgacgtca 300  
ttcccactac tcggacaccc ctacattctc tcagaatccc ggagaagtcg tagtcgtgga 360  
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ccactctaac tgtccggaca cgtcatgagt cacaccctaa cgt 463

<210> 38123  
<211> 406  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-F6

<400> 38123

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agcgggcatt cacacttcgc acggattacc cctccgcagt agcccgcctt gtactcttac 180  
gcaccctcta acccgagat cggagagaga ataatagaga gaaatcgacg ccgaggataa 240  
ttacagaagc aaccggccat gtccgagagg aggaaccggt taaataggga tcacaccccg 300  
gagagcgacc ccggcctcca cccgaaacct ccacgccgtg ctaacatctc gacaaccctt 360  
aacgctcggc cgcgtctcta tgaagactta aaaccttcg gattaa 406

<210> 38124  
<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-F7

<400> 38124

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ggaatcacag gtgaaaaaca cgaataaaca aagataagcc tacgatctgg aataaatatg 180  
ctatgacgat cggccccaac cccgccaaga gaacctgact acccgcccgga tacggcctag 240  
cgaaacagaa attgctagcc ccagcagtag ttaatcaaag gacgcccata cgagtcgcca 300  
cctctaaact ctatggctcg agtggggcccg tctgtttacc ggtaataccc ctagggcccag 360  
ctaagcggtg acaagtcgct tcccggcgag tataggctcg cataggacca tccgcgcctg 420  
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<210> 38125

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-026-Q1-K1-F8

<400> 38125

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gccgagacgg taaataaggc cggagccgct gacaccgccc ggagggccgc cgaggactcg 180  
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aatccggggc tactagacac cgacgtctgc tcggaggagt cgtccaccga cggcactccg 300  
cacgtccctt aagagtagat cagcgacgat gtanacgcca cgtcaaacgg ccccgaggctc 360  
gcgggccaacg tatccggata gagagccaag tttcattcct tctagacncc cggcatcaat 420  
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<210> 38126

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations



<223> Clone ID: LIB3069-026-Q1-K1-F9

<400> 38126

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ggcatcgccg cgacaaggat gtcgaccccg aggcagcggc atacctgcac cttcggcgga 180  
ggcggaggag ggaggcgcgc cgcctccggg tcggccatgc tgcccccggt ggtggctctc 240  
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cacgtcacg tncacgtagc ctccgacgc aagggtaga atggcaatca agaagcagca 360  
gcaatgaaga acctcaaac taatttgcgc aaggaggtgt ttgatgctat aactgctagt 420  
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<210> 38127

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-G1

<400> 38127

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gaacctcccg gatgtaaagg acctcgtgaa aaaggaatca tcgatctagt aacgggcaag 240  
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<210> 38128

<211> 469

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-G10

<400> 38128

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 ccggaggcggt tggacgcgcg gcggctgacg tacaagtcgg acgtgtactc cctgggctgt 360  
 ctgctgctgg agctcctgac gggcaagtcc ccctcgacg cgtcgctgga gggcgacggc 420  
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<210> 38129  
 <211> 477  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-026-Q1-K1-G2  
  
 <400> 38129

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<210> 38130  
 <211> 432  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 38130

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<210> 38131  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-026-Q1-K1-D4  
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 tcatcgggag gggatctagc attataacgt agcttaaagg cctccgctag cgcgtaatac 300  
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<210> 38132  
 <211> 321  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-026-Q1-K1-D5  
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 ataggccgaa catgagggcat attggtctgc ggctaactgg gtttcaagcc tataatcctg 240  
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<210> 38133  
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 <213> Zea mays  
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 gctcttgtgt agggttctgg tcgtacgggt acgcttgctt ctcattggctt gtttaagttt 180  
 gagttcgata cgactaagtc tacttattat gttgctgttg ttggggctat ttcttccgat 240  
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 ggcgcaaggg agaaggctga gtcggttatt aagcccgttg ctcttcctgt tgatggtaag 360  
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<210> 38134  
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 <213> Zea mays  
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ccgtcccagc aattcgaata ttagtaagac cgactacgtc aaattctcag ccactctgta 360  
 caacggcgctc agcggcgatc atttagatcg tatcgattaa gtccacgaaa aggtagccgt 420  
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<210> 38135

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-D8

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 cttacgtcgg ccccgatat gtcgtcccc cgcgcccaat ccactcgtcg ttgcttcgca 360  
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<210> 38136

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 38136

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cgacggcgct ggcgcggcgg cggcggcggc caccagcgag cgccgtcacc ggcagcgtgg 360  
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 ataacgctcg ggcgcgcgac ccacacacac acacaaagtc gcaatacgca acatcggagg 300  
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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 ctcatgcaac tgcattgccc ctaacgtgga gaccgncgnc gncagcagca tcaagaccat 180  
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 cggcggctgc gactgcaaca cctgcaagtgc cggcaccagc tgcngctgct cctgctgcag 300  
 ctgcaactga gcgccggcgg gcccggggat ggcgcgcacg agtcgacgga aggacgacga 360

cgagtcgtat aaatataata gcggcgtcta aataagatcc tgtcaactgc acccgccatc 420  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-E12

<400> 38139

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cgacgtcacg cctccggcgc ccccttcggt tgtcacctcg ggggtcgcg attggtggag 180  
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tccaccagac ggagatcaac tgggataacc tcgacaagac caagctctac gtggtgggag 300  
caggcatgtt cagcggggtc accgtggcgc tgtaccctgt ctcggtggtc aagactcgga 360  
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<211> 393  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-E2

<400> 38140

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gcttgtatag aactggacga tcaagggtcg gtgtgttacg gtgatacagc ttccttcata 180  
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actaacgtcg aagaacaaac atcaccgtg ataacggatc acccataacg ctgcgacgtc 300  
cctggcgtca accgtatccg tttccgttaa actaagtacg cgaatcaacg gaacgtccta 360  
gccccgcgta gcccgcaaa aaaacagaac acc 393

<210> 38141  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-026-Q1-K1-E4  
  
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acttatcgga ggaaggtcgt aaatcggggc tagccactag cgaaggatag catgagaaga  180
caaagaaacc tactctgatc gtaagaagcg aaggcggtat aacctcgcac ggaggcgggtt  240
gattatagta ctctagaaga gggcctccct ccgaattcat aaccacaata gacgccagca  300
tgctaacgta aacccggtaa gaggaagctc ccggattagc cactcgcgcc aaggagccca  360
ggatagagag cgaagtcgcg gaatccgtaa acgacatcta tcacggccca gtcggcgttg  420
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 <213> Zea mays  
  
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tttccccctc ttctgctggt gctgatagtg acgagaacga gccagtcact tccgaaccta  180
catactcctc ggcggaatc acggactgtt atcctggtaa cgcgcgtag tccgacacta  240
cgccttactc ggagaaagcg taccctacgt cggaagagac ggcgacgaac ggccgtaccg  300
cggagataag caaatagaat actccggtat taacataatc cacggagaaa atccttcgaa  360
acagcgacac ttacccgcgc agccccttac ttatccggtg taaccgttcg ctcgttttcn  420
  
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<211> 318  
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<213> Zea mays  
  
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<400> 38143

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aaaagaaaag aagaataaag agaaaaaa aaaaaaggaa gataaaatga gaaagataaa 180  
gaaaattaca atagttgtaa aaaagagtaa gaggtataaa atagcacgga ggcgattcaa 240  
tataaaggga tataagtagg acaacactag aattgatgtc aacaatataa gtcaggatgc 300  
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<213> Zea mays  
  
<223> Clone ID: LIB3069-026-Q1-K1-F1  
  
<400> 38144

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gtgattcgga taggagacat gcgagcaatc cttttgctca tgatggttgt ggttttgatg 300  
ttagttccgc ggtttgtgcg taggggacta ttagtgaaac tgggaatgtg tattaatcgc 360  
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caatggttgg gctcgatgag cgggtgactc 450

<210> 38145

<211> 396  
 <212> DNA  
 <213> Zea mays  
  
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 <400> 38145  
  
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 atttgcgctcc gtaatgatac agacccctca cggggttttt aaaaccaaac ctaacggttg 240  
 gggcccaaaa atctagcaat cggaaaaatt tcggggccat taaatcaaac ttttccgtac 300  
 aaaaattttt ccagtttaga cgggtgcaaaa ttaaaaaggt ttgaataaac gggtccctta 360  
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 <213> Zea mays  
  
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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggca 179

<210> 38147  
 <211> 331  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-026-Q1-K1-C10  
  
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ccaatgttta gagttttttg agacctatat gcggttttgg ttttcagtgc acaattaaaa 240  
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 <213> Zea mays  
 <223> unsure at all n locations  
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 gagatcgctc tggttggtgg aagcaccagg attcccaagg tccagcagct cctgcggggac 240  
 tacttcgacg gcaaggagcc caacaagggt gtcaaccctg atgaggctgt tgcctttggt 300  
 gccgctgtgc aggggaagcat cttgagcggc gaggggtggtg acgagaccaa agatatcctn 360  
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<210> 38149  
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 <213> Zea mays  
 <223> unsure at all n locations  
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<210> 38150  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-026-Q1-K1-C2  
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<210> 38151  
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 <212> DNA  
 <213> Zea mays  
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 <400> 38151

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<210> 38152

<211> 406  
 <212> DNA  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-026-Q1-K1-C5  
  
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 aatatttacg acgatataa gaagaccgcc gagaagcacc ttaatcttaa tactgaaacc 180  
 tacatcccta actagagtta gcacttctgt accgccattg aggatcctcc gttatccttt 240  
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 ctcccgaaca atagtggaaa atccgatact ccaccggtct agggtaagga gcacgtcccc 360  
 gtcgtaaata tagataatcc gggcgtcaca gctgatacta agacttcaaa ttactcgact 420  
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<210> 38154  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 38154

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gcacttagtg ccgatcgatc cggtgctgtg gacaaacaac tgaagtatta gacgagccgc 360  
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<210> 38155  
<211> 482  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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gccgagttta tgggtggcgt gttcctcatg gtaaggattt tattaaggcg gattgtagtg 360  
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<210> 38156  
<211> 396  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-C8

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ccgggaagtc aaggctaaac ccttccggaa tcaaaccac tactcatgat atataggtct 180

tgcataacgg tgggagagcc cgtatatagg aatgcgtttt tagttgctgg ccgctcctta 240

ggaaagccct attaagagcc ttaagtggta gtcattttgc tgtctaggcg aatcatgagt 300

cgaacgcgtc gggaatttga gggtttaggt ggacgtagcg tgtcacgtac cttacttttg 360

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<210> 38157

<211> 444

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-026-Q1-K1-C9

<400> 38157

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cccgccacag ccagcacgcc aggtctctcc tccagctcct gttcgagatg gtgggtggctc 180

catgtttgga ggaattgggt ccaccattgc tcaaggtatg gcgtttggca cgggtagtgc 240

catggcacac agggctgttg actctgtatt aggtccccg accatccagc atgagactct 300

tgccacagaa gtcctgctg ctgcccctgc tgctccagcg atgaatgctg atgctngcag 360

cttccattct aaggctttcc aagattgtct caacaactat ggcagcgaga tcagcaagtg 420

ccagttctac ctagacatgc tgaa 444

<210> 38158

<211> 268

<212> DNA

<213> Zea mays

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gtcggttctg atggtgggta tgtgttcggg gcttgttgat cgtgtgggtg acaagccttt 180  
ggtaggggtgc gtgcatgtgc tgcgtgagga ttcgttgaat cgggtgtgcg ctatcgggtgc 240  
atgattgcta aatcttcgct gggtcctg 268

<210> 38159

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-D11

<400> 38159

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ctcgcacgaa cgaacagaga caggggaggg gaggaattga agtgtaaccc aaggaaagga 300  
accatgatgg tgtggcaggc ggaggaggag gattgatcca tccgtctacc catcagaccc 360  
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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-D12

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acacactcac atcacaactg tacaaaaaat cacaacaaag ggcactcccc taaacctccc 180  
tccttccttc caactcccct ccccatgaat caccttttta catgatcccc taaatccaaa 240



tatctctccc tctttctaac aaccctaaca cgggaaaacc cccgtatgcc cacccttaca 300  
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 ggataagact acggacgctg ttctgtctca gaagccttcg taggagtgt ctaaggctgt 240  
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 cgcagcgctc gaatgcacgg aacccttcga ctctcgtacc aaggccgtca ccgaatttaa 240  
 gattaaagtc gacgttgata aaacgggtcat cgggccaaact aagtcctctt aagaagattt 300  
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 accgtactcc gacactaccg cagatagatc a 391

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<212> DNA  
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<223> Clone ID: LIB3069-026-Q1-K1-A5

<400> 38163

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<212> DNA  
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<223> Clone ID: LIB3069-026-Q1-K1-A6

<400> 38164

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cttattactg gtgctgagcc tgttatttgt agtacttatg ctgaggataa agctgctaag 360  
gtttagactc gggatattgc tggttaggaa agacattgtg tcactatgaa gtgtgcatca 420  
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<212> DNA  
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 <223> Clone ID: LIB3069-026-Q1-K1-A7  
  
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 gctattggaa ggcgtcgtgt gataatactt aggggactat gaagttggtg acttggaggt 180  
 cgggtgaggag gggcgggtgcg aagtgtactc ttgggtcgac tcatgaggag atttgtgggtg 240  
 cgtctaagac tccctctgag aacgctactt gtgatgtcgc gattcatatg gagtatgttt 300  
 gctgtaaaat tgctattgtc acggatgctg cgcatgtttc taaatgttag gggtgtatct 360  
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 <212> DNA  
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 tcctggtgaa gagcggttaa agtgtggtac gtcggcggaag gctgtcgggtg atgttactac 360  
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<210> 38167  
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 <223> unsure at all n locations  
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tgttttgccc taggataatc tngcagttat ggaaaccttg tatattgtat cctgcaattt 360

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<210> 38168

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-B1

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<400> 38169

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153

<210> 38170

<211> 437

<212> DNA

<213> Zea mays

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agtagaattt agatggcctt gcttcgcttt catgtggatt tatcttgcaa atgggtatgtg 180

gatccgttcc agaggcaatg agccttgacg ccagtttgca gtataaaaaa cccaattatg 240

tccactgctg gttcgacgca gcgtgtgccg aggatttcta ctgccaagca taagaaagta 300

tttgaaatca agaacttgca ttcattcaat cataatgtgt ttcctatcaa gcataagtgt 360

gtgtgttttg tttgatattt gctttaatat gagaatggtc ttggcacccc aaaaatgttc 420

ccattctact ttcgggc 437

<210> 38171

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-B12

<400> 38171

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tatcttttca actaaccaca ccgcttgggc acacatttaa acctcaccag gtgtttcttga 180

aattgaggca tgagagtaag gttgaacact tattcgtggg acctggctct gcaaggcagt 240

tcaaaattgt tcttgacttc ctaggtttgg tggagaaatt ttactacctt tctggaagat 300

atgaccttga gcttaccgtt ggtgatgctg taatggaaaa ttcatttcta cgacctcttg 360

gccatttggg gttggacctg ccagatgccc cagaaaaagc cccacgtcct tctgcacaag 420

ctgttgacct attctcaaaa ttg 444

<210> 38172  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-026-Q1-K1-B2  
  
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 aatgttagca cctcgccctc gctgtcatag aaaaccgcat aagccccgcc accctccggc 180  
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 tattacgtca cggcagtggg ggttgggtact tggcgagaga cggaggactt tcgaattgca 360  
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 <213> Zea mays  
  
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 cgccgcgccc cttcacgcca agcggagcct tcccagacct gagtttgccc caccataaaa 420  
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<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-B4

<400> 38174

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aaggcttagg acctaagaag ggcgaccccc ccccgaaacg gtcattccact acaggattag 360  
tcggcataac agtacctgaa taatatcgtg accgaccccc gccttcaaga cgccacctaa 420  
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<210> 38175

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-B5

<400> 38175

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ctagccgccc ccgttctatc gtctcgcaag gatacacaaa accggcaccg gcatccctca 180  
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<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-B6

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tcgttagggg actggaggat ctggcggtg gtgagaatgg tagggtgagt attagtattc 240  
aatcgctgag ttccgcgaac gtgatcatta cgtagggtgcg gaggtcgggtg gatgtaacgc 300  
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<210> 38177

<211> 380

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-026-Q1-K1-B7

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<210> 38178

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-A3

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gaccgaggta ggcaatacag aattactaga atcaaccgta gacacggacg tttagacagt 180



aaaagtaaag gaagaagtac cgagcagaaa agacacttcc gacaaagcag aaagacggac 240  
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tctcagttga ggcgtttatt cgaactcgaa gtgcgtagaa aaagtctgca cttccgccaa 360  
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cgtgccggc 429

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<212> DNA  
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<223> Clone ID: LIB3069-025-Q1-K1-G9

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<210> 38181  
 <211> 412  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-025-Q1-K1-H12  
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 <211> 286  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-025-Q1-K1-H3  
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 ccaccgcgtg aacgccatgg taacggtgag cgggtggggtt ggggtgtgga tggagcactg 240  
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<210> 38183  
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 <212> DNA  
 <213> Zea mays  
  
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tctggaaaga aaaaaatgag attgcagctg ctcatctgtg ctatttagtt gctgaactaa  180
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<210> 38184  
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 <213> Zea mays  
  
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<223> Clone ID: LIB3069-025-Q1-K1-H8

<400> 38185

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<210> 38186

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-H9

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acgtgtatga caagtacata tcgaggctgc atcccggcga gtaaggtaga tttgtttaca 240  
gacgagacag cgagtgcctt actttccgta cgttgagact tgcgttatga ccgtcttgct 300  
aaactcgtg tacgacttgg atcgttacga gaacgattcc aatattcgta tatacacaac 360  
tactgattta atgccaccag ctgcaggctc cgacgagaca tcatttgtga tctacggtga 420  
tatggggaaa gctccgctgg accca 445

<210> 38187

<211> 194

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-A1

<400> 38187

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gccacggggcc tacgtcccggt cttatgaagg ttcgtcgcca cccttagtat ttcgccccta 120  
tacgaggagg agaataactca gaaactaaaa ggactcttga gcgcaatcaa agggcatccc 180  
gagaaataga aacg 194

<210> 38188

<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-026-Q1-K1-A10

<400> 38188

gaagatttgg tgttttggac ctgagaccac tggcccgaac atggttgtag atatgtgcaa 60  
gggagtgagc tatctcaatg aaatcaagga ttctgttctg gctggtttcc agtgggcatc 120  
aaaggagggt gcaactggctg aggagaacat gcgtggaatt tgctttgagg tctgtgatgt 180  
cgttcttcat gctgatgcta tccacagggg tgggtggcag gtcattccca ctgccaggag 240  
ggatcatctat gcctctcagc tcacggccaa gccaaaggctg ctggagccag tctacctggt 300  
ggagatccag gcccagaaa atgcacttgg tggatatctac ggtgttctga accagaagag 360  
aggatcatgtc tttagaggaga tgcanaggcc ggggtacccg ctctacaaca 410

<210> 38189

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-A11

<400> 38189

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gtagatatct acaagtgagt tctaaatctc aatggagcca acgattctgt tgtggctgat 120  
ttccaccggg catcaaagga tgggtgactg gctgacgaga acatgcgtgg aattcgcttt 180  
gaggtctgag atgtcgatct tcatgctgat gctatccaca ggggtggtgg tcaagtcatt 240

cccactgccca agacgggcat ctatgccttt catctcacgg tcaatccaat gctgctgtat 300  
ccagtctacc tgggttagat ccatgcccc gaaaatgcac ttggtggtat ctactgtgtt 360  
ctgaaccaca agaaaggcca tgtcttt 387

<210> 38190

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-A12

<400> 38190

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agttctgggc ggacaagaag aagtttggga cagaggccat ctacggatcc gccttgaaca 180  
tccgcaagga tctcgatgcc caaatcctct caaggttcca aaggccccct ggtgctttgc 240  
catcatctct gcttgatgat gaggcactga caggttccct agatgatttt ggttttgaag 300  
attatcttaa catgcctcaa gattctgaag gtttccgtca acctgacatg caccacggaa 360  
tggaggttcg ccttggtttg tccaagggaac ctatctgccc tagcttcagt tgaggcagtg 420  
aatgtagttc tgcggttctg ccgcacgttg atg 453

<210> 38191

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-A2

<400> 38191

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gaatcgcggc ggaaagcaca gcgtcttata gaacgtcgca cgcgtagagg tcgcttaagt 180  
cactaataac cgtatatggg aactaataa gtaacatact ccggacttcg tccgtttgga 240  
cgacgactcg ccgagtttta agatcgagc agagatagac ggaatgagta ggccgacgtc 300  
agagctcgta gaccctcat ccggccttaa acgcgtagaa gtccacatac ctcaattcat 360

gtccggggga acgacgacat agcctaggag agttctggca cttgtaaggg gataaccgga 420  
gtacggaaat gacatagtta cgtaccgttc cataaccacg aca 463

<210> 38192  
<211> 425  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-025-Q1-K1-G6  
  
<400> 38192

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gggatgaaga aagatatcca tgcctatgtc cagacatgca atatctgcca acaggccaaa 120  
ccggacagga ccagctatcc cgggctgctc gcgcctctac ctgttcccc gcattgcatgg 180  
cattctatat caatggactt cattgaaggg ttaccgaagt ccggaacaat ggattgcatt 240  
ctggtggtgg tagatcgatt ctcaaaatat ggtcatttct tggcgcttgc ccaccctttt 300  
tctgcagcaa aggtagcaaa acttttcttg gataatatct ataagcttca tgggtatgccg 360  
gacaatatag tatctgatcg ggatagagtg ttcacaagtc tgttctggca gcaattattc 420  
actct 425

<210> 38193  
<211> 215  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-025-Q1-K1-F1  
  
<400> 38193

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gttcgagaac gtgtccaagg agggactgaa gctgggcaag gactcgaagc tcaaggagct 120  
caaggagtcg ttcaaggatc tgtctgactg gtggaagaag gccctggaga gctagaactt 180  
agactctgtg aatatcatca accggctgca tgaca 215

<210> 38194  
<211> 434  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-F10

<400> 38194

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gatgcacggc tgcgcgtcgc tcgacgggaa ggtcgtttgtg gtggcggacc gtggcggcctt 120  
gtcctacgat ccttcggcgc cacctgcgga ggcgtgggca ccggtgtcgc cgggtgcttga 180  
catgggatgg aagggccgag ctgcagtggg tgagggaaac ctctactctt acgattacct 240  
gggacaggtc aaggggtatg atccggacac tgattcttgg agcacagtgg aggggttggg 300  
gagggagcta cccaagttct tgtgcggcgc cacgcttgcc gatgttggag gattgctcta 360  
cttggttttg gaaggaaagt ggaaagggaa attgaaaggt aagatggacg ttaggagcat 420  
ggtaatgatt gaat 434

<210> 38195

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-F11

<400> 38195

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gcagacgctt actatgattt atacactagt tgtcaaacta gtagtcaatc tgtcattgca 180  
aggagccttc tcatgagaag gaccatgcaa agtggcctcc acaacgggtt ttagaacagt 240  
acgtactcca aagggaagtc cgctggcaac actcttagaa aatctatgat agtatctagt 300  
atactgttca ggtagctgat ctgtacacc aactacttca tcctaattgct aaatatcata 360  
accattaacg caacgaagac actcatggcc atatgttttg ccatgaact 409

<210> 38196

<211> 174

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-F12

<400> 38196



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 agaaagaaaa aaaaaaaaaa aaaaaaagga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaacaaca gcac 174

<210> 38197  
 <211> 353  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-025-Q1-K1-F2  
 <400> 38197

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 acacagggag tcttgagggt gatggaagtg agaagtccaa gcctaactta gtgctaagta 120  
 atattgattt gagagagatg cctaataaga agctatctgc ttctgcacca ccatttaatc 180  
 catctocacc atctgtactt agcccacttt ctggcaatgt tggctctccg gcaccaggtg 240  
 ccattocagg agtagcacct tggcctgtga atgtatccct gcatactggg cattcaacta 300  
 tggtgccaaa gggtccttct ttgtgcactt ccccttatca tttataccct tct 353

<210> 38198  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-025-Q1-K1-F5  
 <400> 38198

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 gaagatctgc gatgcgctcg tcgttgccga gatcgcgatt cgtttatgag cttcgaggaa 120  
 tcgatgatca agcatggcga caaagtgatc gaactcttcg agttctacga gatcgaagac 180  
 cctgagcatc tgtttggtga aggtgccttc ggtgcaatct atgcttaggt aaagaagaat 240  
 gcgtcgaggc ggatctccag gagttccaag acttcgacga gttcgaggat taggctagcg 300  
 acctcccca gtcagctgcc tgtggtgggt ttatttacgt tggctacgtt tctattctgt 360  
 gtactttgat tatattatgt aaatgactct agtctttaat attattactc attctatatt 420  
 gtt 423

<210> 38199  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-F7

<400> 38199

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tccccgtcgc cgcggacca ctcccatggc aaagctcccg cgtctaccct gtcggtttgc 120
cgttctcgcg ctcatgtgca tcatcccgct cacagcgccg cggcctgcac tgtcctcgcg 180
cgcggcccca agggacggtg tctccttcgc cggcgcaggc aacacgatac atcaacttct 240
taaagatcac ggccttcccg gaggactgct cccgcgcggc gtggagtcgt acaccctgga 300
cgagtcgacc ggcctgctgg aggcgcggct gtcggcgccg tgctacgcca cgtacgacaa 360
cggcgaactg gcctacttcg acaacgtggt gcgcggcaac ctacgcaagg gcgcgctccg 420
aggcgtggag ggcc 434
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<210> 38200  
 <211> 425  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-F8

<400> 38200

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accaccccg cccgccgccg cgcagcagca gcagagatga gccagcagct ccttgccaac 120
ctagtggaga tcatggagca gagaatgaag ttgatcgagc agaggagcgc gtacctccaa 180
gagcaaatca accagacagc cagccgcctc gccggaagag tactcgaggg ctaacaagga 240
gttccgcaag ctggagagca ccatggagtt gatcaaagac ctgagatcga aacaggagga 300
aatcgagggt ctcaaatttt tggtagcaaa tgatcatgaa gagaaagaca tgcgtgagat 360
ggcagaagag gagcttcttg tggctgtcga ggaagagaaa cgattgcagc atgaactgtt 420
tagat 425
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<210> 38201

<211> 446  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-G1

<400> 38201

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gagaggggtgc tgatgcagtt atgctttcag gagaaactgc acatgggaaa tttcccttga 120  
aagctgttaa ggtcatgcac actggtgccc tgagaaccga ggcaactatt cctgggtgggg 180  
aaacacctgc agaccttggc caggctttca agaaccacat gagcgaaatg ttcgcatacc 240  
atgcgacaat gatgtcaaat acccttcgaa catcaatagt ggttttcact aggacgggat 300  
ttatggctat actgcttagt cactaccgtc catctggcac tatttttgcc ttcacagacg 360  
aggagagagt taggcaacga ttggctttgt accaagggtg atgtccgggt caaatggaat 420  
tttctgatga tgctgaaaag acatatt 446

<210> 38202  
<211> 349  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-G11

<400> 38202

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gggaggccat tatcaagaaa ccatgagttc taggttcgca atccctaata ctgatctcac 120  
ttaagcgctc gtgagctctc tccagtggct aaagattgca gatttgagtt atagtccaag 180  
aaacgggtgg tggccgcca tggaggtgag gtccgagcaa gggctgatgg cggtgaggga 240  
tctattcggt atgccaaaga gcccgccggc gccggtttcc gggccgccag cgtccgccgc 300  
catgcaaagc gtgcgcatgg cgtacacctc ggactgcacc gctttgttc 349

<210> 38203  
<211> 365  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-G12

<400> 38203

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caacgtgctt cattgtgggc ctagaagaaa gagaatcaac cgtacacttg atgcccaggt 120

gtagaatctc aacaaggctg tcatgtgggg ccacatccca cagcccttct ataaagaatt 180

cacgagctcg acccttttgt aaaagcatgc aagcccaggc aactatgttg aatccattcc 240

cgtaaggaga gaaagaagga tccagtgcct ttttgtctga aatgagttca agaagtacaa 300

ctccataact atacacatac gccttatcat aaacgcggca tgtcatcgca tactctggag 360

ctaca 365

<210> 38204

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-G2

<400> 38204

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taatgacgcg aaggctgcca agggaggagg tgaaaggcag ttcaatgggc ttgtcgatgt 180

ctaccgcaag aactcaagt ctgatggtat tgctgggctt taccgtggat ttaacatctc 240

ctgtgttgga atcattgttt atcgtggtct gtactttggg ctctatgatt ccatcaagcc 300

agttgtcctt actggcaacc tccaggacaa tttctttgcc agtttcgctc tggggttggt 360

gatcactaat ggtgctggtc ttgcatctta ccccatcgat accgtccgca aaaagatgat 420

gatgacatct ggtgaagctg tcaagtacaa a 451

<210> 38205

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-G3

<400> 38205

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 gccctaaccg ttccgccgtcg cgcattcgag cactcgcgga agcgcaccta gtgccatggc 180  
 gaagaagcgg aagcgcaccg acgccccgc agaggcgacc ggcgagaga agcctgacga 240  
 ctctgcgccg gcgcgcccgg agcgcacgct cttcggcttc aaggaccgg tccccgacgc 300  
 cgagccccgc ttccgggcg ccgaggccgc ggtggcgccg ttccggaaca gggagaaggt 360  
 actcatcacc tgctcccgcc gaatcacgta taggtgagtg ctccctgggt tttccgcttg 420  
 cagtcttggt agatgggtga tt 442

<210> 38206  
 <211> 255  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-025-Q1-K1-G5

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 agcaaaggag catgatgagg aagctgctgc ggcccctgag tttgctgcag tcaactgatta 180  
 ccaaggagct gatcagtggg gtggtgacca gtggacctta tatgtgtctt taccatattt 240  
 tgctcctact ggtgc 255

<210> 38207  
 <211> 431  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-025-Q1-K1-E8

<400> 38207  
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 acctggtgaa gatccaagtg gttatgagct cgcaagtgag cgttggacac ctgtgcatac 180  
 agttgaaagc atagttctga gcattatata aatgctctct agtccaaatg acgagtctgc 240  
 agcaaacatt gaggcagcta aggaatggag ggataagagg gaggatttca agaaaagggt 300

caggcgcac gtgctgaaat cacaggaaat gttatgaaga aaatggaatt ctggggaagt 360  
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<210> 38208  
 <211> 305  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-025-Q1-K1-D2  
 <400> 38208

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 ctgcaatgaa gcgctcggaa gcatgctacg tatgttgtgt ctgtgggtga ttgtatttct 240  
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<210> 38209  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-025-Q1-K1-D3  
 <400> 38209

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 atactatagt gtacctaat taattactag tcatcgttta caacacgact atcgaaaaac 180  
 tttggaatac ccaattaata tttctaagca ta 212

<210> 38210  
 <211> 299  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-025-Q1-K1-D4

<400> 38210

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aacctgtacc aagtcacgta cacttgcaat gcgcggaagt actccgtctt cacttgctac 180  
ccacaagaaa ggcccggact acttggttga tcatacgcac atgacacacc ctgaaacgat 240  
caccaatcac actagcttga catacactgt cctgacaact agatctatgg cattgggttg 299

<210> 38211

<211> 75

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-D5

<400> 38211

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ttaccaacat ggggt 75

<210> 38212

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-D6

<400> 38212

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gcctcacctg ccgcgacggc aacgtggtgc tggccccgc caacccgcgc gacgagcacc 180  
agcactggta caaggacatg cgcttcagca cccagggtcaa ggacgaggag ggcaaccctg 240  
cgttcgccct ggtcaacaag gccactgggc tcgccatcaa gcactccctc ggccagtccc 300  
aacccggtgaa gctggtgccg gtcaacccgg agtaccagga cgagtcggtg ctgtggacgg 360  
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acttcgacgc ctttcacggg gga 443

<210> 38213  
<211> 395  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-D7

<400> 38213

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gtaggtactg aaaaaataat ccaaaatgat cgagtatcca ctgcccaggc tcgttactgc 180  
aatactgcct tcgtgaatcg tgcctctgcc tcccaatctg gcatggggca gtgggcctca 240  
gttcttccct caccactagc cccttttccc tttcaagtcc cttttgaaat tttctctctc 300  
tacaatttct tatacaaaag tgaatcgaat tctgggattt ttttaataaa aaaattccgg 360  
gtacagaaag acagtgcggg agatacgaac caaac 395

<210> 38214  
<211> 254  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-D8

<400> 38214

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ctgctgcgcg tggccctgct gctgctgctc tctccccg cgcgcgtcgt cgtcgtccgc 180  
gcgcagcagc agcagcgggg caaccgtgc ccgacgaacg cgggtggcgga cctcaagggtg 240  
tgcgccgacg tgct 254

<210> 38215  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-D9

<400> 38215

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accctcagcc tgggtcgcgc caaagatggt gactgtgatt tcttcgatat tacttatgta 240  
caatgtgggc taccggaact agaaaaggaa gttgacgaat agatagacca gttcagtgcg 300  
tgggtggaga aacacccaaa ccgcagaagc cagatctgcc tctccttttt cgacgagaaa 360  
cacagacacc ctggatggtt tgtcaacaaa acagagcgca tctattggga gcaatggctc 420  
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<210> 38216  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-025-Q1-K1-E1  
<400> 38216

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cggcaagggg tgaccatggc ggagctaaag cggttgtcgg agagccgtga cctgacgcgg 120  
attgagcgca tcggtgcgca ctcccacatc cgggggctag ggttggactc gtccatggag 180  
gcgcgcgata cctcggaggg catggtcggg cagctccacg cgcgccgcgc ctcggggctc 240  
atactccage tcatccgcca gggcaagatt gccggccgcg ctgtgctcct tgcgggccag 300  
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<210> 38217  
<211> 267  
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<223> Clone ID: LIB3069-025-Q1-K1-E10  
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acataaatat catgacgatc attccaactt acgaccatt gcccaatgaa ttacatagta 180

ccttagcctg tactacataa acgacatcaa gcttactact accattaagc tgcattgcctt 240  
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<210> 38218  
<211> 363  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-025-Q1-K1-E11  
  
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gttatcggca ccttggaagg acggttcctt ccttccctgc gcctaaatcg ctgccctttg 180  
atttcgctgt atcagatgct gctatgctat gctaggctct agtctggccc agggaaactgt 240  
ggcaataatc tgtggccttc aagctggtgt tagaactctt gtactgcttg taagcttatg 300  
tgggttttat cgtgcaagta ggtggtttga tgttttagtg tggataaaaa gcgatttcaa 360  
gct 363

<210> 38219  
<211> 421  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
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<400> 38219

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acttgtctca gcccggggtc tgetgcgtct ggtgggtggtg aaggggagaa attcgtgaga 180  
tctgttccgg atcaggcgtg cgagctcggg aatcaggggt ttcacacata gcttcgtcga 240  
tttgaatttg atgtactaat ggagtctaag ggtggcaaaa agtctagcag tagtcgttct 300  
atgatgtatg aagctcccct gggctacagc attgaggacg ttcgnacctg ccgaggcgtg 360  
aagaagttcc agtctgctgc ttactccaac tgcgcgaaga gccatcctga tatccctttt 420

<210> 38220  
 <211> 390  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-025-Q1-K1-E2  
  
 <400> 38220

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cagaccgcc cctgcagcct gctgctgaca gcgcctcaac ggagaagggtg tctgctccgg  180
cgccggaggt aagggtccgg ggattcaggc ttcttgaga ggacacttcc gtgcacaaat  240
cccttggggg cggtaaaact gctgacgttc tgttatgga agacaagaaa acttctgctg  300
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<210> 38221  
 <211> 460  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-025-Q1-K1-E3  
  
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ggctgctagg cgaatgggcc tactttgggtc atcaaatgca ggaattccac tactatatgt  180
gccacttgaa gttgttatgt tcaaataata tggtgaaaac gagcgtctat tgggatctat  240
tttttatctt gcaaatgata ttctgaaaag aggtaatata ttcttagatg aggtatatat  300
cgtaatactt atagcataaa cactcaagcc actacaagta agctcctgct ctttgcttgt  360
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tatagactgc ctctgtcccc ttcatcactg ctgatgacct                                     460
  
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 <212> DNA  
 <213> Zea mays  
  
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 gcagggcacc ttcgccaagg tttactacgc gagggacctg agcgccggcg ccggcacggg 180  
 ccacagctgc agcgtagcca tcaaggtgat cgacaaggcg cggctgcggc gtacggaggg 240  
 gatgggtggag cagctgcgcc gggagatctc catcatgcgg atggtgcggc accccaacgt 300  
 ggtgggcatc cgggaggtgc tctgcagccg ctcccgctc ttctgtctca tggagtacgc 360  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-025-Q1-K1-E5  
  
 <400> 38223  
  
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 gctgtacagc gacaaaaaga tgctgaacat gttagtaagc cagaaggagg gagtgaagtg 180  
 ccaaaagggt cagaatctga ggattgttct caaatctcgg gcatcaagag tgaatcagct 240  
 gaggagtcta cttcagatga cgatggagac ctccctggcc ctgcagatga aagtaaattc 300  
 aatgcaggac gtagacttga tggtactgtt cattctattg aagaaaaagt aacagaacaa 360  
 ccatctgtc tcgaaagtgg tgaattgaga ccatatcaac tagaaagtct ccaatggatg 420  
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<210> 38224  
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<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-025-Q1-K1-E6  
  
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 atgccttaat gaatttgaat ttgtcatcaa accaactggg tggaaaaatt cccaacaaga 180  
 ttggtgccat gatgtcgtg gcateccctgg acctctccat caacaagctt tctggtgaaa 240  
 tcccatggag cttatcaaac ctgacatctt taaactacat gaacttgtcc tacaacaatc 300  
 tgtcaagaaa gataccctta ggccgtcaac tggatacctt aaacgtggac aaccgcgtcac 360  
 tttgtggacc ttctcttcaa aattattggg caagaaatgg tagcttcatg cctgggtatc 420  
 acagaagcaa taagca 436

<210> 38225  
 <211> 117  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-025-Q1-K1-E7  
  
 <400> 38225  
  
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 aggcataaat aaatcatact acaatctaata caataaaaaat atacttttta aatcaca 117

<210> 38226  
 <211> 432  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 38226  
  
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 ggtcactgcc tccactcct gctcgtgggc gncggcctcg ccctcgccgn cggccctgct 120  
 cgcgcgggcg tgggcccggcg gccccggccc gttgttggcc ggttggaacc ggatccttga 180

cgtgagcgac tggcacatcc aggagctagg cgggtgggcg ctggggcagg cgaagcacca 240  
 gaagctggcc gccgacgggc tgcggttccg ccgctggtg cgcggcgagc agcaggctgt 300  
 gtccgggatg aactaccggc tctacgtcga cgcctcgcac cccgccggcc gcaccgtgcc 360  
 ctacgtcgcc gtcgtgtacg agcaggctctg gaccgcgacc cgcagctcg ccttcttcaa 420  
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<210> 38227

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-B9

<400> 38227

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 ctatggatca aagcatccaa aggagaaaacc tccgagcaca tcgagcaccg aataaccatg 180  
 gctggctcgtg acgcagaaat atagatcctg cttggctggt ttgaggatct ttaagtccgt 240  
 ctgateccatg ccttggacct caacgtcagt tatatactct ctagtgtgtg catttcctct 300  
 tgtttcaggt atttgtttgt cgtgctgcca atgtgtctcc aaagtccaaa ctgtatgtgg 360  
 tcaccatggc attgggatga tgcgaaaaaa ttatgagcgt atctatgttc caatgtttgt 420  
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<210> 38228

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-025-Q1-K1-C1

<400> 38228

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 cgcgagggca cggcgtcgtt gctcaactcc atggtgaaca acagggtccc cttcacgacg 180  
 catgaggatga aggacgcatt cgggtgctgcg ctcaactctg gtgacgacgg cgccgccgcg 240

gcacaggcgc gtctgttcaa gaaagcaaat gaggggcacg tcatcaggca gaactagcta 300  
ggcggcagtc gccgtgtgta tgtccgcaat gcaactatgt gcgcggcgag catgcagggc 360  
ttgcttagga tctgcacgta tgtgtttgat gatgggggtga agttatcatc acttatctcg 420  
atnaaaaa 428

<210> 38229  
<211> 322  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-025-Q1-K1-C10  
<400> 38229

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ttccaacata taccgaatac atacacctcc atatacagtg gtgataacta caactttacc 180  
atatacagca catacacagt gataccaatg acacatctac attacataaa caaccaaadc 240  
atccatcttc ttacattata caattcaact tacctcataa tagccaccaa aattagttac 300  
taaaactact gcaacatgct ta 322

<210> 38230  
<211> 429  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-025-Q1-K1-C11  
<400> 38230

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gcggtaatat caacaacaac agcaacggcg tggaggtgaa gagctacttc aacaagtccg 180  
ccgggagggc ggcgagcaac aacaacaaca acagcagcca cgccggcggc ggcaacaaga 240  
agggcggcgc cggggagtac ggcaggaaga agcagccaa gagcgagggc gcggcggcgg 300  
cggcggccac ggacaagcag cggttcaaga cgctgccggc gtcggagggc ctgccgcggg 360  
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ggaggggagc

429

<210> 38231  
<211> 175  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-025-Q1-K1-C12  
  
<400> 38231

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aaaaaacagc tacttataca attgcatcaa caaacaacaa agcaccaact actacaacaa 120  
caatacatca tatgatgaac caaataattc ctcaacttcc aataaccaat ccaat 175

<210> 38232  
<211> 448  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-025-Q1-K1-C3  
  
<400> 38232

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tacgccaacg aggtgcccaa gaccgcggag aacttccgcg cgctgtgcac gggctagaag 180  
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cccgagttca tgtgccatgg cggcgacttc acccgcgga acggcacccg cggcgagtcc 300  
atctacggcg agaagttccc cgacgagaag ttcgtgcgca agcacaccgg ccccggtgtg 360  
ctctccatgg ccaacgtcgg gcccaacacc aacgggttcc agttcttcat ctgcaccgtc 420  
gcgacccctt ggctcgacgg caagcacg 448

<210> 38233  
<211> 383  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-025-Q1-K1-C4  
  
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gcacgaacga ggcgctcatc atctccatcc tcggccaccg cgacgccgcg cagcgccgcg 180  
ccatccgccc cgcttacgcc gaggcctacg gcgaggagct cctccgctcc atcacggacg 240  
agatctccgg cgacttcgag agggccgtga tcctgtggac gctggaccca gcggagcgcg 300  
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<210> 38234

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-C5

<400> 38234

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ataatgagca accaaggcgt ctggtacctg gaccacctcg acgtcccctg ggaggacgtc 180  
tacagcggcg agccgctcgc cgggatcagc gacagagagc agcagaagct ggtgctcggc 240  
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ccccgagccg tcgcagcggc agagcgtctg tggagccagc tggaggccat atccgcccag 360  
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<210> 38235

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-C6

<400> 38235

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tgctgctttc tacaagagct tgaccaacga ctgggaggag catcttgccg tgaagcactt 180  
ctctgttgaa ggccagcttg agttcaaggc tgtactcttt gtgccaaagc gggccccctt 240  
cgacctcttt gacaccagga agaagcagaa caacatcaag ctctatgtgc gacgtgtctt 300  
catcatggac aactgtgagg agctgatccc agagtggctg agctttgtc 349

<210> 38236

<211> 73

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-C7

<400> 38236

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<210> 38237

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-C8

<400> 38237

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agtcgccagc agcaccatgc ccttttctcg gccgcgcgtt ggtttcttag ttagactggt 180  
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gattaagctt cccaagaaaa aaaggcgatt agatgaagtg tgcttagaaa ggtttcaaca 300  
atacagtaga acatacatcc agtcatggat tcttcaaggc aaagtcacg tggatggaag 360  
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aatcccaaaa 430

<210> 38238

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-C9

<400> 38238

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cgtgcaacat atacagaata tataatatca ataaattctg gtgatacatc taggtgtaca 180  
agtaacaaca catacattgg gaaattaagg tcaaatttcc ttggcacaaa atttgtaata 240  
tacgatactc atccgccata caatggaact agtcaaacag tggcagggaa aacaagtcag 300  
agattctact ccaagaaggg atcaaccaag gtttcttgca ggtggtacag tattgcacaa 360  
atctcatagc agctgaatgt cttgggaact cgaggcccaa ggcggatgaa ctgtgtaatg 420  
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<210> 38239

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-D1

<400> 38239

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tgacgaggtg cgcaacggcg ctggaggagg ctggctccga ctacgagatc gtgcccata 180  
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tggatgtttg gatcgaggtg gaagctaacc agttcaccgc tgcaatgaat cccatcctct 420  
tccaggtcct catcagtcct atgcttgggg 450

<210> 38240

<211> 476

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-D10

<400> 38240

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tatctataag aagtcaagat ggtgaagttc acagctgaag agtccgtgc catcatggac 180  
aaaaagaaca acattcgtaa catgtctgtc attgctcatg tggaccatgg caagtctacg 240  
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cgcatgactg atactcgtgc agatgaagca gagcgtggca ttacaatcaa atctactggt 360  
atatctcttt actatgagat gactgacgag tcactgaaga actacaaggg tgagagagat 420  
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<210> 38241

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-B7

<400> 38241

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cgccgccacc ggcgcctctc tccaggagat cgactagact cttcacggtc atctgatggt 180  
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tcttatgtta tttgaaaact gctctgtgcc tggatgagag ttttggaaaca taatgtgaac 300  
ctgtgtgtct gtgacctgag ctttgaagat ctcattatgt gggt 344

<210> 38242

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-A10

<400> 38242

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tcaccaagat ggctacttct cagggcagtt caaggaaagg cttcttttga ggataataga 180  
tagaatgcaa ttcaagccct tacaacattg atgggccgca cagcaagtga aaaggctttg 240  
gcagatgatg ttgacgatac aattgtctct attaacgctg cctacgcagg acacgaagct 300  
gaaggaaaacg tatatgatgt attcgaagga gctagcttga aggccttcac tattggctga 360  
ggtctgggta tgcttcagca gataacaggt caaccgagtg ttctatatta tgct 414

<210> 38243

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-A11

<400> 38243

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gatcaacttg ttgagataat aaagggttctt ggtactccaa cacgtgagga aatccgttgt 180  
atgaatccaa actacactga gttcagatct cctcagatca aagctcacc atggcacaag 240  
attttccaca agcggatgcc tccagaagct atagatctcg cttcacgttt gctccagtat 300  
tcaccaaate taagatgcac tgctcttgaa gcgtgtgcac atccattctt tgatgagttg 360  
cgagagccac atgcgcgggt gccaaatgga cggccatttc cttcactgtt caactttaaa 420  
caggaac 427

<210> 38244

<211> 136

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-A12

<400> 38244

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gtaaggtaat gatgctcggt tttatggaac acatatgatg tcctttgttt aagtcgtttc 120  
cagtaaatat attatg 136

<210> 38245  
 <211> 450  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-025-Q1-K1-A3

<400> 38245

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 cctcgctgcc tcatcaattg gggatccaat ctttgctgct gccactcggc gatccgatcg 120  
 ttctcgatca aggtcgggtg ccatggctcg ctgccgccat cacctnctcc tccctcccg 180  
 cttacttgcc ttggctgctg ctgctgcgcg gcaggcgcag agtcatgggg aagcctccgc 240  
 cgtcttcacg gatgcctcgt cgcaccgcta ccttctggac cagcaagccg accaccagga 300  
 cgcttcaatg tcgttaaagtg aagtttctgc ggttgtttct gtcttgcttg gttttgcacc 360  
 gtcaacatcc ctaccagcta tttcttcttc gaagttgaac aaagttcttt ttctaatcc 420  
 atttgataga ccgctgctg ttttctctgt 450

<210> 38246  
 <211> 417  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-A5

<400> 38246

cgggcgaaga ttggaagctc gacactctgt gtgacctgta tgagaccctg tcaatcacc 60  
 agagtgtcat ctttgatgaac acacgccgca aggtggactg gctcacggac aagatgagga 120  
 gccgggacca caccgtgtca gctacacacg gtgatatgga ccagaacacc agggacatca 180  
 tcatgagggg gttcagggtc gggctctctc gtgtgctcat caccaccgac ctgctcgccc 240  
 gtggtatcga cgtccagcag gtctcacttg tcatcaacta cgacctgccg acccagccag 300  
 agaactacct gcaccgcacg ggcgtagtg gtcggtttgg aaggaaaggt gttgccatca 360  
 acttcgtcac ccgcgacgac gagcggatgc tgtttgacat ccagagggtc tacaacg 417

<210> 38247  
 <211> 436  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-A6

<400> 38247

aaacaaatct aggggttccaa gcgagcggaat accttcgcct gccgatctcc ccgcgtcttc 60

tcggggctaag acgattcgag gcacgagcga agatgccgca gcggcattcg aaaaacaaca 120

acgacctcgc cttcttcacg tacgaggaga agcgtaagct cgggtacggc acgcagcggg 180

agcgccctggg aaaggactcc atcaagccct tcgacgcctg ctgcctctgc ctcaagccgc 240

tcacggggccc gctctgctgc cccaagggcc acacattctg taaggagtgc atcctcgagt 300

gcctcctctc ccagaagaag gacatcaagc gcaagctagc agcacatgag gccagaaaa 360

agcaagagaa agaagaggag gaagagaagc taattctgca gaaggctaag gagttggatg 420

cctttgatca gcagaa 436

<210> 38248

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-025-Q1-K1-A7

<400> 38248

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gacgtccact cccccaggat ccgctcggct gaggagatcg ccgaccgcat cgacaagatg 120

ctggcggtgc tggacaccaa catcctctgg gtgaaccccg actgcggcct caagacccgc 180

aagtacacgg aggtcaagcc cgccctgacc aacatggtct ccgccgctaa gtcacatccg 240

accagctcg ccagcgccaa gtgagcacct tttttttgcc tttttcgttt ccgaggaggg 300

cgtcgtcgat gccaatgtgt ttccaataaa cagggtgtg cccgccgttc tgttgtactc 360

cgtctgtggt taggttagta gttttcttga tctcgcccc acgcggtacc tgttttacta 420

ctctctgntt ggtggtttct ggagcaag 448

<210> 38249

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-A8

<400> 38249

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aatgagttca gtcatttttg tcattctctg tctctctcca ctgagattca acacgttatc 120  
agacactttg ctctccaacg aaggccatca tcgtgaagtg cactgcacac accagtatgc 180  
tacacggccg gcggtgtggt aactgctatc atcatccatg acaagatgaa caagcaagat 240  
cacgattagc gtttgcagac cgcgacgaga ggcagcacgc cagcgtcgcc aggccggact 300  
cgctcctgcg cgacactcag tgagtaacct attacgaacc taaagcaata tcgtctctcc 360  
t 361

<210> 38250

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-A9

<400> 38250

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gtttattgat ggacatgtta agcctgttct agggagaaag attaactgga tgaagacagg 120  
gatcgttgag agtgatctgg ttctaacagt tagtccacat tatgttaagg aactcactta 180  
tggcccagat aaagggtgtg agttggatgg tgtccttcgc acaaagcctc ttgaaattgg 240  
aattgtaa at ggcatggatg tttatgaatg ggatccttca acagataagt acaccagcgt 300  
gaaatatgat gcaacaacgg taactgaagc aaaggctctc aataaagaga ggttgcaagc 360  
tgaagttgga ttgcctgtgg actcgagcat cctgtttata gtttttgtcg ggcgtcttga 420  
agaacagaaa ggtctgaca tactca 446

<210> 38251

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-B10

<400> 38251



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tcacaacaca aacctcccaa cacatccaac acctaataat catgtctcgt catgaccac 120  
acctatcaat acttcctaca cttttccga atcttcaa atctttgaat catccttata 180  
acctaaacct ccattaccta ctacacagta tctccatata ctctgaccc acatattccg 240  
acttcctcct accaattttt ctccaaaacc c 271

<210> 38252  
<211> 470  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-025-Q1-K1-B11

<400> 38252

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gacccgaacc ccaacgatgc cccgtcgtc ccagccgaat ccgcgccag actcgccgcc 120  
ctctcccttt gtggcaccag ggaccttccc ccggacttcc acaccgccga gatcctcgac 180  
gacgacgagg gctacctcac ctccgcgtcc agaggcggga gcagcacctc cgcgtggaag 240  
gaggcgcccg agggactcca cgacgatgac aaggatgggg acgatgtctc ccagcccagc 300  
cccagaagca gcggatacgc tggcgagcgc ggaagcagcc ttgatgacga cgccgacccc 360  
gaccccgacc ccgaccagga ttgggcgcgc ggcaagaagc atccncacga ggacgatgct 420  
tcctcttcgt ggaggaagag gaaaaaacat ttcttcattc tgagcaattc 470

<210> 38253  
<211> 165  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-B12

<400> 38253

gctgagtatt agcgcatact gctagactgc cactgtcgtc tgtgctatgc atgcttttga 60  
gctcgagtga tgtttgagga accagtgatc gtgttgatgg tgctgaacat tggaacctgc 120  
agtacagtgt agcatgatgc ttgcttgctg ggccacggcc cgttc 165

<210> 38254  
 <211> 438  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-B2

<400> 38254

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 gcggtgcacca gccaccttc aagatcttct gcaaggccga cgaggggtac tgcctcaccg 120  
 tccgcgacgg caacgtggtg ctggcccccg ccaacccgcg cgacgagcac cagcactggt 180  
 acaaggacat gcgcttcagc acccagggtca aggacgagga gggcaaccct gcgttcgccc 240  
 tgggtcaacaa ggccactggg ctgcgcatca agcactccct cggccagtcc cacccggtga 300  
 agctggtgcc gttcaaccgg gagtaccagg acgagtcggt gctgtggacg gagagcggcg 360  
 acgtgggcaa gggctttcgc tgcattccga tgggtgaacaa cattcggctt aacttcgacg 420  
 ccttcacagg cgacaagg 438

<210> 38255  
 <211> 424  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-B4

<400> 38255

cgcgtagctt tagtatTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT 60  
 TTTTTTTGAG caattaacaa ctgaaaacgt tattttatat gcaaagtagt agtaagacag 120  
 TTTTGCATCA cttatgagta caaagacata agacatcggt atctatTTTT cagcaaataa 180  
 aacactggca aacaacgaaa atttttatca tatcggacta ataaacacta ctaagctgta 240  
 ataacctgcg agtgtaataa gaaccaaaca aagaaaaaaa gaagatccag ccctaattag 300  
 cactaactac ttagctagcg gtagccatta ggcgattatc aagcgcatte atttcatgcc 360  
 atatcgggggt catggatcac ggtctccggg cttggggcct gacaaacacc gggagagggc 420  
 ccca 424

<210> 38256

<211> 464  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-B5

<400> 38256

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ttgagactga gcgcatatta ctcggcgaac ttcaagctta ccacaaaac cagtaagcct 120  
cctcgaacta acataagaga ttacacatcc atacttccca aggctaccgg ccactaagag 180  
atccagattt caaacatta catttgaacg agactttgga tgaatcacat tagcttgcaa 240  
aatacgataa ccagtaaagtg gagaacatta catttgaacc agactttgga tgaatcacat 300  
cccacatggc tttcaaaata actctgtttc gaccagatca gttgctccaa caaatatggc 360  
gatagccgaa caatcaagtg ccaatatcat cttcgaagca tcggaccagg cttgaagtac 420  
cctacaaagt tggggatgtg actgctccat tgtttcatgt gaac 464

<210> 38257  
<211> 496  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-H9

<400> 38257

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tggggcgtag actgcgtttg acttggtga atttggttaag tttgttatcc ctaagactct 120  
tgtcctcatc gacaaaatta ctgagaaggg gaagtcggcc actgatgcta agcaccctcc 180  
tcctcatgcg tatctggaga tttgtgatac tcgtggagag atccttcggt tagtgattgg 240  
tgatcctgcg tcgctttatt agtagatgtc gttaggtcct atcttggttg gtcttcatat 300  
gactcatagc aagaccgctg gggatgataa tgaggagtcg agtcgtactc tgcttgggcc 360  
tagtactggc cctgctgtgc ttagtcgaat gtgcttgagt tcgggtatga gaggtagtta 420  
gtttacggac gcaaaccatg cggagtatat ctcgcacttc acgatcccta agcactcagg 480  
cttacgcaag tcccc 496

<210> 38258

<211> 356  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-024-Q1-K1-G6  
  
 <400> 38258  
  
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 ggaccaatct gatgaagtgc tggctcgtgg ttccaatgat cagatttatg acatcttcca 120  
 gctttctgcca tctaatatcc acgatgcagt ctctctctgct accatgccac ctgaggccat 180  
 tgagattacc cgcaagtaca tgaacaaacc agtcagacta tcttgtgaag agagattagc 240  
 tcacccttga gggcatcaat catatctatg agaatgtgca caatgaatac ttgaagctgg 300  
 acacactgtg tgacctgtat gagaccctga ccattatcca tagtgtatat ttgtca 356

<210> 38259  
 <211> 215  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-024-Q1-K1-G7  
  
 <400> 38259  
  
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 aagaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaata acaacaaaaa aaaaaaaact aagaaaaata taaatacaaa gacacataaa 180  
 gcccctcaga ataccacaca atttattaac aaacc 215

<210> 38260  
 <211> 442  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-024-Q1-K1-G8  
  
 <400> 38260  
  
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 ccgccgaggg ggccaagaag gcggctgctc ctgccaagaa gggaaaggca gcggcggtc 120  
 ctaagaaggt ggcaaccccg aagaaggctg ctgctgctgc cgccccggcc aggaagggcg 180

tggccaggaa ggccaagaag tagtctgcct gccttgtcgc tggcgagatc ccccccctcaa 240  
 ttccgcctat agattcccct ctttcatgga ttttgatcca atcgtaatat tgtcagtagc 300  
 tctagattcg tcggtagctc cagcatgagt gtcggtggta gttctgtgcc tgtaaaaaact 360  
 tgggatagtt gatcgcggtg gatcagccgt catgtctctn cagtctctat gaacaagcta 420  
 agctataata gtatttttgc at 442

<210> 38261  
 <211> 470  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-G9

<400> 38261

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 gtaataaggt agtagtataa gtaagaatgg atattcttct ttcctgttcg cgactacgct 120  
 gctccgtcgt ggtggtaagc gtgggcgtgg tcttagtcgt cttcgtggta gtggacgtaa 180  
 tggtcgtggc acgcatttcg atgcggagat tgttggttatt agtagtgcta agattatggc 240  
 ttctgtttgt ttgattatta aggttagtgt tgggtggtcct gaggtgggta ttgaggggtg 300  
 tggtcgtgat cgtaatatcc gtaagcgtgg tattagtcgt ggtcgtcttc gtcgtagtcg 360  
 taatcgagtt ggtttggtct ggtgacggtg tatgagagct gagaggatga tgatgaggag 420  
 gtgcacaaca aacacaacag tgggtgcttag caacaagac ttcgctaatac 470

<210> 38262  
 <211> 274  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-H1

<400> 38262

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 cgggcaggat gctttcggct tccgtcttct gacggcgcac tcaggcagcc gctaaggagc 120  
 ctcttgacgg agatcgcgcc ccttatcggg acgacgattg tgctttacac cgtaaaccaa 180  
 cactgctttt catactctac atccagtatg caactgccag gaggtcctct ttaactgaga 240

cacttggtccc aggaaaccaa gaagctgggc tatic

274

<210> 38263

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-024-Q1-K1-H10

<400> 38263

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aatagacgat ggtcacacta cgtagaataa acctgaaggt ggccgagtag gttagaaaca 180

cgcgctctgtc cggactggaa ggttaactaa ccacgtcgag aagagtcggt aaacccccacc 240

cgttaaacag cgacacgtac acatcgagca acacactccg cttcgactc ntacgcagga 300

agatctccac aagactaaga ctcttatagg actcgaacgg tagaacgcta ttcttcataa 360

ctcgtagtgc taggatcatc cgaggcggtc taatcttcgc gatcggaggc agcggagtcg 420

ccttcgcaaa ttacg 435

<210> 38264

<211> 483

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-024-Q1-K1-H11

<400> 38264

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tgggcgttcc gattaatcca ggaacccggc gcctcgctct cgtcgatagc ctaaattcct 120

tagtacgctt gcccggggag tgtacaaaga tacgaatcgc gaggaacgac ataagcatag 180

catggaaacc tgatagcact cgtccgcggc ctaagttggg ccgaataaccg aagacagtag 240

agcccggtta cgtaccagac gactgcggc atcggagaaa cacctggcgc agtcgcccgc 300

cctcgccctt gccctcctta gtagccattc ggcctatca ttctaaccgc gcttttctac 360

gagctacgat tgcaccctag agcccacgcc gggtaccttc gtatctcagg cagttgtaat 420

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cac 483

<210> 38265  
<211> 486  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-024-Q1-K1-H12  
  
<400> 38265

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tgtttatgtg cttgattatg tgcattgggtg atttactgat cacggaagga aggtgtgagt 120  
tggaggtgga tgggtgaaag gttgggggtt cattgatgct ggagttgggtg tattcgtagg 180  
gttagttggt gtatgagcat gggcatggta tgccttaggg tttctgatac ttctttgctg 240  
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ataattagaa gtagctgcat gtgttcgtgg agatgcatca tgtttagggg cattagggtg 360  
cattagggtca cggcttcgcc gtcgaaggaa gattcgcgag aacgacgtgc tctttacgcc 420  
gcggttctgg tccaagtcgg cgctcgccta caatcgggcc ccctccggtc gttaccttac 480  
ggccta 486

<210> 38266  
<211> 448  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-024-Q1-K1-H2  
  
<400> 38266

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acgatgctga gatggaggta cgggagcata tcattatggc tctgacgacg gagcaccgag 120  
acggacacta tcgtacctct tgactgaaat cgcaaccctt atcgagacaa agactgtgct 180  
cgacaccgta aagccatgcc gttattcata cactatatct agtttgcac tggcatgagg 240  
tcctctttta ttgaaacact tgatccatgt atccataaat ctgggctatc ttagctagta 300  
tctaataaaa atgatatgaa gaatcctgac atattcacag cccatgatta gtacaatcat 360

ctatcaaadc ttactttctga taccgtcttg catgcattgg ctaaagatga tcttaaagac 420  
gaaaggatca tacattcatt aattactg 448

<210> 38267  
<211> 431  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-H3

<400> 38267

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aggaggaggc cgcggcgccc ggcgaggatg aggacaccgg cggccaggtc gcgcccacgc 120  
tgaagctgga ggaggtcgcc gttaccaccg gagaggagga cgaggacgcg ctcttggaaca 180  
tgaaggcgaa gctctaccgg ttcgacaagg aggggaacca gtggaaagag cgcggcacat 240  
gcactgtgaa gctgctcaag cacaagaca ccgtaagggt ccgctctcgtc atgcgtcagg 300  
cgaagacgct taagatctgc gccaaaccatc tcgtggtggc gacgactaag atgcaagagc 360  
acgcggggag cgacaagtcg tgcgtgtggc acgcgcttga cttcggcgac ggcgagcttc 420  
aaggaggat g 431

<210> 38268  
<211> 220  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-H4

<400> 38268

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ctgcgcaggc agaagccatt tgcacgcgtc cccctttcag ctttggttgc cccagtcgga 120  
gggttttgtc tttgtttctg tcgtccgaat ggagcgagtg gtgatggtga agtgtgtcag 180  
aaatagatcg gagaaaaatg aaatagaaag cagcaacagc 220

<210> 38269  
<211> 486  
<212> DNA  
<213> Zea mays



<223> unsure at all n locations  
<223> Clone ID: LIB3069-024-Q1-K1-H5

<400> 38269

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ttgtgctcgc agtcgaaaag cttggaaccg gaaggtggcg agatgttaaa cttcgcgcg 180  
ttgacaatgc gaagcaccgt acctatgttg atcttaagga caaatggaag acgctgggtgc 240  
acaccgcgag catctcgccg cagcagcggc gtggcgagcc ggtgcctcag gagctgctcg 300  
accgggtcct ggcgggtccat gcctactggt cccagcagca agccaagctc cagcctaaga 360  
cgccccgct gctggctgaa gctcgcttgc tcacctaata aattcgatga tcttggtgta 420  
tggcctnctn cgaggccgat gcagcccttg tataaagtca gtaagtcaat cagtcctttt 480  
acagga 486

<210> 38270  
<211> 426  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-H6

<400> 38270

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tgaaggaggg cgaggacaag ttcaagcaga tctcggaggc gtacgaggtg ctgagcgacc 120  
cgcagaagcg cgcgggtgtac gaccagtacg gcgaggaggg tctcaagggg cacgtgccgc 180  
cgacggggcg cggcggggcg gtccccggca gcgcaacctt cttgtccacc ggcgggcgacg 240  
ggccgacggg gtcccggttc aaccgcgtgc aacgcggagg acatcttcgc cgagttcttc 300  
ggtggctaca gcctcttcgg cggtatgggc ggcgatggca tgggcgggcaa ccgcatgggc 360  
ggtgggatgc ctggcatgcg gagctgctgg acgaggttct gctggtccat cttaggtgac 420  
gatata 426

<210> 38271  
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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-H7

<400> 38271

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catctcatcc tcatccccta cccgatcaga tcccctgttc atccgccgag caccaccagg 180  
cagcaggctc cagtcgtcga gcaccagcag gagcacggcg cgtgcccag taggagcacg 240  
gccaggagga cgacgcctgc atcctgcctc ttctcctctg ctactggagc ctctactgct 300  
aggagcacgg ttaggaggac gacgcctgca tccagcagga gcaccagcag gaggaggacg 360  
cccatgctgc tgccgttgag cgatgatctg atgcgcccc atcatggctc ttctgcttcc 420  
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<210> 38272

<211> 472

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-G5

<400> 38272

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tgacgaagct gatgaaatgc tttctcgtgg tttcaaggat cagatttatg acatcttcca 120  
gcttctgcca tccaagattc acgttgaggt cttctctgct accatgccac ctgaggccct 180  
tgagattacc cgcaagttca tgaacaaacc agtgagaatt cttgtgaaga gagatgagct 240  
gacccttgag ggtatcaagc agttctatgt gaatgtggac aaggaagact ggaagctgga 300  
cacactgtgt gacctgtatg agaccctggc cattaccag agtgtcatct ttgtcaacac 360  
ccgccgcaag gtggactggc tcaactgaca gatgaggagc agggaccaca ccgtttctgc 420  
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<210> 38273

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-F1

<400> 38273

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ggcgaccgtc gacaccagcc tcctacctcg cgcccaccgt cgggatccgt ccctactcgt 120  
ctgcgcccgc ctggggctag atttctgaga aaatggcgag aagtgccgga actaggaggc 180  
gtgtgggtcg ccagctcaag tccacacatc ccattccttc ataccgatgg aagtcaaagc 240  
ccatgaaaaa gccgatgaaa aaatgcaacc gaaagcaagt gttgccaacc ttgcaaaaga 300  
tggactggga agatgccaat cgctctgtgt gcatggaata cccacataat gctgtgctca 360  
tcccttggtc ataccatgat aaggggtgtc gtccatatat gtgtg 405

<210> 38274

<211> 184

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-F10

<400> 38274

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ctagactgtc tataggtgag gatttactaa tattgtgatt cactattcta cacttttaag 180  
ttcg 184

<210> 38275

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-F11

<400> 38275

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agtgtcaatt tggcggctaa gttgtttggg tccgtaagtg tcttcctatg agctgagttg 180  
gatgtttgtg catagtgggt gatggaggga tagattgtgg gtctgagcgg agtttgcct 240

ccatatcttc tgccggaatg agctagctaa gtgaagttcc cctctagttc ttcattgatgg 300  
gatatgtcag tggtcgcctc tctgccgtgt ggtc 334

<210> 38276  
<211> 216  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-F12

<400> 38276

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cgaccacttc agtcatatcg atcggagtag cgtcccgta tttgtgagca ttgagtccac 120  
cgggctcgta gtcgtcgaca cagacgaaga cctcgtcgag aacgattatg catgagatta 180  
cgaataattt ggtcaaggga gttcagtgag tactga 216

<210> 38277  
<211> 344  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-F2

<400> 38277

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ggtgcagggtg ctaacatgac tgcgacgctg attggaaaca agggagacct ttctcataga 120  
cgggctgtca gctatgatga atgtgaacaa ttatccaaag agcatgctct gctcttaatg 180  
gaggcatttg ccaaaactgc acaaaacatt caagaggcat tcattaagac cgctggtaca 240  
catatacaaa accattcaag atggcctatc cgaagcatca aatgactacc acggcatcaa 300  
aggactctac acaggtccca acttatctgg acgtggaact ggct 344

<210> 38278  
<211> 233  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-F3

<400> 38278

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 gtgggcaggt gctaacatga ctgagacgct gattggaaac aagtgatatc tttctcatag 120  
 acctgctgtc aattatgagg aaggtgaaca acaatgcaaa gaccatgatc agctctgtat 180  
 ggccgcattt gctagctctg cacaacacat tcaattggca tgtcattaat acc 233

<210> 38279

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-F5

<400> 38279

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 tacgtccagg gcgacaagta ctatggtgca aaggccacca ttaatgtgtg ggagcccaag 180  
 attcagcagg ctaacgaatt tagcctgtcc cagctctgga tcttgggggg gtcatttggg 240  
 gaggatctca acagcataga ggctggctgg caggttagcc ctgacctcta tggagacaac 300  
 aacaccaggc tggtcacata ttggactagt gatgcatacc aagccacagg ttgctacaac 360  
 atgttgtgtc ctggtttcat tcagataaac agcgagggtg ccatgggggc tagtatcttc 420  
 cccatctcga actacgagg ctccaatat gata 454

<210> 38280

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-F6

<400> 38280

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 ccacaagcgc ctgcacggat gcaccttcaa gaagaaggca ccgaatgcca tcaaggagat 180  
 caggaagtgc gtccagaaga ccatgggtac caccgatgtc cggatcgatg tgaagctcaa 240  
 caagcacgtc tggagcagcg gtatccggag tgtgccgagg cgagtccgtg tcaggattgc 300

ccgcaagagg aacgacgagg aagacgccaa ggatgggcag tactctctgg tcacagtcgc 360  
 tgagatccct ccggaggggtc tcaaaagttt gggaactaat gttgttgaag atgaggatta 420  
 agtcgaaggg ttcaatcatc taccacttaa atgcattcc 459

<210> 38281  
 <211> 306  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-024-Q1-K1-F7  
 <400> 38281

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 tgcaactctg gaactcaaac gttctactcg aggattgatg gttcacataa atgtgggaac 120  
 acgtaggaaa aactatgcat cttcgattta ggttgcaaaa gagggagctt gaactcatta 180  
 cctgagccat cacaactttc ttctctgcaa cttggttaca gggtatgccc ttgctaaagg 240  
 gataatgcaa agatccctac aacaccaatt agaattgggg aagacgaacc tncnctcag 300  
 tctcct 306

<210> 38282  
 <211> 453  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-024-Q1-K1-F8  
 <400> 38282

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 ggtcatgggtg gacatctgct ccacaactgc tcgcctggga tccaagatgt gggcgctctg 120  
 cttcgactac atcctgacgc atcaggccta tgtggcgggtg gacaaggact ccactatcaa 180  
 ccaggacctt atcagcaact tcttgctcga ccctgtccat ggtgccattg atgtctgcgc 240  
 caagctgagg cccaccgtcg acatctctgt gcctgccaac gccaaactctg tgcgcctgga 300  
 gtcctacag tcttctctaga tcgaagcagt gagctgagag tgagatggag agagaaagag 360  
 aggatgtcgt gtcccagatt acaacacatt gctgaatggg ttgtgcaact ggaatgtaagt 420  
 caagtctgaa ctgtgaacct atgatcgctt cta 453

<210> 38283  
 <211> 289  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-024-Q1-K1-F9  
  
 <400> 38283  
  
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 ttctggctgg ggaagaagtc ctgtctttgc gttgtatact gggagaggag tcttttgtct 180  
 tagttctgat agatgtcctt ccgttgctgg ttctcatggc aggtgggtcat cgtgctcgtg 240  
 acgagtcgtc atgctcgtct tgagctggta gtgtaggatg aggagttta 289

<210> 38284  
 <211> 369  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-024-Q1-K1-G1  
  
 <400> 38284  
  
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 gtcgcctcct ttgcactcgc ctgctctctc tcacctcccc accccgggca ccgcatctgc 180  
 tgcgcgatcc cgtcgtcgtc ctgcgcgcag accgtcaaat cctcgcgcgt ccgcacgact 240  
 accgtgctct ccagagaacg acggcgacg gcccggtggc cgttcgtagt gagcgtgtc 300  
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 gtgatcgag 369

<210> 38285  
 <211> 409  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-024-Q1-K1-G11  
  
 <400> 38285

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 atttagtcgc cgctcgtggaa gtcgatggtc gagtcgtagt cgttagcgtc tgtgtcggcg 180  
 gacctcgacg tacattgctc taagactccg ttggcgcata cgcgcgccct taataatacg 240  
 acgcacgata gcgttgactc gatgatgttg tatactaacc ggactggcgc ttgcatgagt 300  
 gattcgcata agcagtagac gttcgagtag tgttgctcct ttacgattga ctatgacact 360  
 aacgcggatt aaagagtcgt cacgatgagg atcctcacga agtagaacg 409

<210> 38286  
 <211> 409  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-G12

<400> 38286

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 gccttcgtgg aggtctaagg ccgagtcgaa gtcgttagcg tctgtgtcgg cgacctcga 180  
 cttacatggg tctaagactc cgctggcgca tacgcgcggc cttagaata cgctgcacga 240  
 tagcgttaac tcgatgatgt tggatactaa gcggtctggc gcttggttga gtgattcgga 300  
 taagcataga gcgttgaggt agcgttgctc ctttacgatt gactatgaca ctaaggcggg 360  
 gaaagagtcg tctgaggagg atcctgcgaa gtagaacgag ggtcgggcg 409

<210> 38287  
 <211> 318  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-G3

<400> 38287

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 ggaggggggt tcttgagagg gagatccacc atttcgcttc ggcttgagca gccggggagc 180



tgagcagcgc ggcgcccattg tcggactccg agctgtccca gggcacgcta gtgttcggcc 240  
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 tcctgtacct gctctgcc 318

<210> 38288  
 <211> 431  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-024-Q1-K1-G4  
 <400> 38288

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 tcgccttcca ggcggagatc aaccagctgc tatcgctcat catcaacacc ttctactcca 180  
 acaaggagat ctctcttagg gagctcattt caaactcttc cgatgccttg gataagatca 240  
 ggttcgagag tttgacggac aagagcaagc tggatgccc gccggagctg ttcattccaca 300  
 tcgtccctga caaggccaac aatactctga caatcattga cagtggcatt ggtatgacca 360  
 agtcagacct tgtgaacaac cttggtacca ttgcacgata tggcacaaaa gagttcatgg 420  
 aggcactggc t 431

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 <211> 347  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-024-Q1-K1-E9  
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 acttcgttag acagattcag aactctacat tcggtaaggg ccgacgaaaa atcgacgttg 180  
 gaaatcggac tctattagtg gatattccga ctaatttoga aacatgagta cctcatgcat 240  
 aaggatctaa cccgttacga tagctaatag tctcccgctg tactcatata tctaattcaa 300  
 ctccaacatg cgcgacacca tgcgtgggtc gtctaggaag gataact 347

<210> 38290  
<211> 196  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-D3

<400> 38290

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tctacaggtt ccatgcttcc gaccccgatc atggaagaga ctgcctactt tttattgata 180  
cctaaaatga actcac 196

<210> 38291  
<211> 422  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-024-Q1-K1-D4

<400> 38291

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cgttcctgat cagatccgtc taccaggcct tccaggtgct cggcatcttc cccgagaaca 180  
actccttcca cgtggtggac cacaacctnc cgctcgccac cggctgcca gcgccaacgy 240  
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ctctttcttg ggaagtgcac ngggtttccc gtcggcggag tctggcgggt ttcgcagcct 360  
gccttgcgac aacagctnct ttgtccggt cggcgacggc cggaatttct ccagccaaag 420  
ca 422

<210> 38292  
<211> 285  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-D5

<400> 38292

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tgtccccacc ggcgacggga tcccgaccgg agccctaatt ccaaggggta aacgatgagg 120

ccgtacgcgg tggggacggg ctgcatgtgc gtgtggaggg tgaaagcggg ggccgtcgct 180

ggtgccgcaa gcccgagatt gatggtggtg ccggcgtctg gtccagctcg ggtggacgaa 240

gccgggaagc acgcagtgat ggcggtaca aggctttccg ggcgc 285

<210> 38293

<211> 480

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-D6

<400> 38293

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ctgggcgtaa gagtgttcga tcttcccagc attttgggta tagtaaggac aacttcaatt 180

gggtggatga tatggacatt tcagacagtg agcactcgga tgagttagag aatatgagtg 240

atggatccga ttcagactgg gtacagtcga cgaggaaagc caaaaaacac cagagaagag 300

tgtctagcca ttcaaactct aacctggatt gtcaaaatac acaaggcagt gcagaaccag 360

agaagccctc agatgaaaag tgcattttgc ccaaatacat ttcacagac ggctgttcat 420

gctcaaaatc ctctcatgc aagaccaaca aatgcgagtg cagagggtca agtgcacaat 480

<210> 38294

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-D7

<400> 38294

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tcgtcccga catgggtccg acttaagaac accttgcttc aggcgtcaa gatgctgacg 180

cacggccggg acgattgata agtcaaatta gttgattcac ctggatctca gcctcagata 240  
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 gtgtctagtg cctctattcg taagcacgag tgagaggatg caccagcgta tctgagaatg 360  
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 tgctcaaaa 429

<210> 38295  
 <211> 433  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-D8

<400> 38295

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 gccgatgctg gatcgctatg tgctcagcag taagatccag agcgtgctgg gatacatggc 180  
 acctgagttc acttgcacaa cggtaagggt cacggagaag tgcgacatat acagcttcgg 240  
 agtgctagtc cttgagattt tgtcaagcag aaggcccgta gaatatctgg aagatagtgt 300  
 ggttgtgctt tctgatcttg tcagtgatgc actcgatgat gacaggctgg aggactgcat 360  
 ggatccacgg ctatcaggtg agttctcgat ggtggaagcc aactgatca tcaagctggg 420  
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<210> 38296  
 <211> 308  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-D9

<400> 38296

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 cgctgtcgtc cgtatctcct aaggagaaga aggagaagtt aaggctccag actatccctg 180  
 gcagctaaga acggcgcaaa tcgtttaagg tcacaccgct aaagccaaag cctcgtcagt 240

aatagagtcg ccaaactcga gtcgcattcc cccgccataa ccgccgtagc accatagagc 300  
ctcgccct 308

<210> 38297  
<211> 440  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-024-Q1-K1-E1

<400> 38297

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gacgaggagg gcgatgggta ctcccatgcc aatgatgtaa atgtaaagcg tcttccagcc 180  
cagcaggcac tgtgcctttt caggcgacgt gtctggttcg cttgtgtgac agtgtctgtt 240  
ctgaacttta ctttagcggt agcctattaa cgatcggaga tcatgtaatg tatggctgtt 300  
gtatcatagt attaataggg tgtttagttc gagtaatgag ttagtctatc attgtcttaa 360  
aagagacnct gagaaaagaa gacaaagctg caaacagcaa ttattctgtt ggtgcaactt 420  
aaaacaaaaa aaaggggggc 440

<210> 38298  
<211> 492  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-E10

<400> 38298

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atttattcct gcttaacttt gacttaagat tgcggtgcga cttggtagta gtccttgtgt 180  
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tgggtggctat tcgcggaaga aggtatcgtc ttatcctctt tctcgtcctg ctacgggtcc 300  
tcctatgggt cctgtgttcc ttcttcgtct tcttcggaag cttgttgttg atatttctta 360  
gtattatttg atgtattgct ttggggattg ttctgttgat ctttgtgcgg ttgctgatgt 420

gtgtgttatt tcgctcttga atgtggaggt tgctgacgtg tctcttgctg gagttatggc 480  
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<223> Clone ID: LIB3069-024-Q1-K1-E11

<400> 38299

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 gcatgcagtg gtggctctaa ttttaggtga gtctggtctt ggctatttgc tgacttatgt 180  
 aattacgctg aggaggaaga ttagggagtt taaggaggag aatgccattt ccggatttat 240  
 cgcttgcgaa ggagagcccg ctcccggcgc cgtctatact cccgtacttc ctaacgatat 300  
 tcctacctac gctatcgacc cgctcgggag ggaaatcccg gcctggacta tcggcgggtac 360  
 gaaggccaag gtcgactgcg tcgagctgct catccacgtc gtcacgtccg tcgtctaaga 420  
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 c 481

<210> 38300  
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<223> Clone ID: LIB3069-024-Q1-K1-E2

<400> 38300

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 cgtgcagatg ccgaggatgt acaacaagga cgacaacccc cgcgtgcca tcacgagac 180  
 cggcaacgac ttctccacgc tgtacgcacc gctcatccgc gacggccgca tggagaagtt 240  
 ctactgggcg cccaccgct aggaccgcat cggcgtctgc aaggccatat tacgcaccga 300  
 cggcgtctac gaggaacacg tcgtccagct ggtctacacc tttcctggcc agtccatcga 360

cttcttcggc gcgctgcgtg cccgggtcta cgacgacgaa gtccgacggt gggtgagcga 420

<210> 38301  
<211> 382  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-E3

<400> 38301

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ccacaagatg aaacagacta tcagacatgc caatcaggtc agactgcatt gcatcaaaac 180  
actattaata ctgatgagct ttcacgcaag gctagtgagg gtgggcatcc agaccatctt 240  
aatgtccacg ggaaacaaca gcggagccct gcaagtgcac ctactgaatc aactcatgaa 300  
cttactgttg ttgaaacaaa catagctgaa catgtagctt atgatgaaca acagaatacc 360  
ttattagaac aggattcacc at 382

<210> 38302  
<211> 324  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-E4

<400> 38302

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gggaaggatc aaccaaactc acagtgaccg tatcaagaac aagtacaaca acggttacia 120  
cgaccacatg ctacagacta tcatccatca caagtaagac agactgcac gcatcagaac 180  
actcttacta ctgatacagc cgtcaccac ggcaaatgat ggaggccatc cagaccatct 240  
tactgccgag acggatccgc gtctgacccc tacaagtgca cctactgaat caactcatga 300  
acttactgca gtggaaacaa acat 324

<210> 38303  
<211> 419  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-E5

<400> 38303

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ggcttcaggg gctcatgcgg ctggcctggt tttgctctgt gctggacgct tagtaagtct 180  
gcaactctac atcatatggt atgtagtgag tgatgttcag ttcattgtct gaattcttaa 240  
tgaaatgtga tctgaatgcc tgacaattct agtattcata atttctatga tgctctgaaa 300  
tctgaatggt caatgggtgt ctgaaatctg aatcgctcac tctccactgt ccagttctag 360  
tattcatatt cgttttgctt ggtaatttgg ttactttgat attgccttct atatgctat 419

<210> 38304

<211> 489

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-E6

<400> 38304

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cgcgcgcgct tcgcgggagc gctcctgttt ttcagcatcg gcgccgacag cgctgcggtc 180  
gcgttcagga caggggtgcgc catctcacac cgacgtccca ccttactcgg ggcaagaggt 240  
ctcagttcca ctagaatgga ctcagcttcg accacagtgc catccattgt cgtgtatgtg 300  
acagttccaa ataggggaagc agggagaag ctgtcacaga gcatcatcag cgagaagctt 360  
gctgcttggt tcaatatagt acctggcatt gaatccgtgt actggtggga gggaaaggta 420  
caatctgatg ctgaagaatt actcatcatc aagaccaggg aatcactctt ggatgccttg 480  
actggacat 489

<210> 38305

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-E8



<400> 38305

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ccgatgcgtc ggctgctgac taacacgggtg ctgaacgtgt ccgccgacgc ggcgctggcg 180

ttcgtggagc agggcgctcg cggtagcggc ggcggcggaa aggcgtgcgg catcaacggc 240

ttcaagggtg ggctcgggga cggcgacagg ggcagcatcc tgtccatcac ggacgcccac 300

taccggcaga tgatcgaggc ggacccgggc aactcgttgc tcct 344

<210> 38306

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-D2

<400> 38306

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gcgacaagtt cctcgtgccg acgccgatga aggaggagac cgcctacgtg gagttcatcc 180

agaagaggaa cgcggcgct gcagccgagc cagagctgat gctaaacaac cgagtgtaca 240

cctgcaacaa cgtccagtgc ccgcgcagct gactacagct acggattact ggaccgaaat 300

gcccgcaaca gccaccagta cacctgcaag cacaaggatc caaccctca gaggc 354

<210> 38307

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-C1

<400> 38307

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agggcagcgc tattcatata tagagaggtt agctatagct cgcacatata tgtaactaac 120

taactaactg gctcgttagc gtcgatccgt acagcacagc caaagcatct agaatcaatg 180

caaaggagaa ccctgccagt gtgctagtac taccagcgca ttttaccaaa ctgaccttca 240

gaaacctgta catccgccag gccggggccgt gcctcatgga gctaac

286

<210> 38308

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-C10

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gccgcgcaac tcgacgggta accctagtag ctcaacgttt caacgacgaa ctcccgggta 180

cccgtcgcct cgttcaataa aaacaaacgt cgattgactc acaaaggcac aacgtaaaac 240

aaaggggtgg tgactcatag gacttaagtc catgcatgta cgtacgtgat gctacagtct 300

cctcacagcg ctattcaaac ctaacctatc gggtgctgcc ccataatact gagatcggga 360

aaatttcggg gccatttaac ccaactgttc cgtagcatac ttttcccctg ttagtcgggtg 420

caacactcaa gaggtttgaa ttgactgctt ccatgaatag ccgt 464

<210> 38309

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-C11

<400> 38309

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gttgctctcg ttggagggtg ttattgtgaa taagtctttg ttgcgggtctc tttctgctgg 120

tagtgctgct gttctcctta ttggcattgt gggtattagt aagaagtgga agtgggatgg 180

tagtagtggg gatgatgatg attgcgggtg ggctgcggat gggactgagt ctaaccctga 240

tggtgtgttg tcgtttttcg agcggtaatg tcgttctgat actaagctgg ggtagactta 300

tcatcataat atgaggatga agaagtggat gcgtaaggat ttt 343

<210> 38310

<211> 490

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-024-Q1-K1-C12  
  
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 aggaaaccgt ccgtgtcaca ttcgtcttgg tctacatccg tgaagcccct actatcttcc 120  
 ctatataagc aactagcgcg gaacgcgccc acgacaccgt aatcggccca atctgcgact 180  
 accacgaaaa acgtctttac gtaacgctaa ccacgatcgg gacttggcct cgtctctcgt 240  
 agcacagcaa aaacaagcct aagcactccg acccaagaat gccgtgcgga caccacagct 300  
 aagtagccgc caggcttacg aaacccttag tcgagctaga aaaggatagc gaacaccgca 360  
 tattcgagaa agtcaaacc c ataaagtaac cagagaggtc ccacctaaac gcccggttat 420  
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 agttcttcg 490

<210> 38311  
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 <223> Clone ID: LIB3069-024-Q1-K1-C3  
  
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 gggcaccgtg gagtcccagg ctggtggagg ccgtgggtctt cggctgcac cgggtgatca 180  
 tcgcagacga catcgctcct cccttcgcgg acgccatccc gtgggaggag atcggcgtct 240  
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 tcgtgctgag gaagcaacgg ctcttcgcga acccgtctat gaagcatgcc atgctgttcc 360  
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 t 421

<210> 38312  
 <211> 423

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-C4

<400> 38312

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 gcagccttgc tttcataaaa gtgccagtc ttgaggatga ctttggtcag gaagcagcag 180  
 agtatctaag tgaatgtttg ctcagtagct caaagcaata tcgggcaatg attgaagaac 240  
 gtgatgcttc tgggggaaaa tcaaaggac aaggaaccgg aaatgttctc attgttactc 300  
 ttgttgatgc ggagacagaa agtagcataa atgctaccat gcttgaggaa ggccttgctc 360  
 ggcttgaaag aagcaagaga tgggacacta gggagaggaa gacggctctc cagaacctgg 420  
 aac 423

<210> 38313  
 <211> 438  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-C5

<400> 38313

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 gaccagccgc gtggagcgcg agcgcgggtc ctctctcccg tacctgcgct tctaccgccg 180  
 acctacgac gagatttctt accgcgccat gatgcgcccg ccgctcggcg gctgataacc 240  
 catcgtcgag aagttcaagc acaagccggt gcagcagacg ctgcgtcggc acgctgggct 300  
 ccaccagcat cagcagcacc accattacca acagcagcag aggatctgag tctcgtctct 360  
 cggtcggtac tgcattggca cccgagaatt ttctccatat acagcataaa ggcgatgcta 420  
 tattatgcta agttaatc 438

<210> 38314  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-C6

<400> 38314

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gaccagccgc gtggagcgcg agcgcgggtc ctctctcccg tacctgcgct tctaccgccg 180  
accctacgac gagatttctt accgcgccat gatgcgcccc ccgctcggcg gcctgatacc 240  
catcgctcgag aagttcaagc acaagccggt gcagcagacg ctgcgtcggc acgctgggct 300  
ccaccagcat cagcagcacc accattacca acagcagctg aggatctgag tctcgtctct 360  
cggtcggtac tgcattggcg cccgagaatt ttctccatat acagcataaa ggcgatgcta 420  
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<210> 38315

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-C7

<400> 38315

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tgaaggcgag gcagatcttc gacagccgcg gcaaccccac cgtcgagggtg gacgtggggc 180  
ttagcgacgg cagctacgag agggggggccg taccagcgcg cgcattccact ggaatatatg 240  
aggccttgga gttgagggat ggaggatctg attatcttgg caagggtgtt cttaaggctg 300  
tcagcaatgt aaataacatt attggaccag caattgttgg aaaggacccc actgagcatg 360  
gtgagattga caattcatg gtccaacagc ttgatggaaa cctcaatgag tggggc 416

<210> 38316

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-C8

<400> 38316

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 caagaaaagc acaggaccaa aataaaggaa aagcttgaga aatttaacaa ggagaagttg 180  
 ctagatTTTT gtgaaattct ggacgttatt gtaaaagtaa ctactaagaa ggaagaagtt 240  
 tctgccaaagc tcttggaatt tttagagtct ccttggtgta ccagggatgt tattctcact 300  
 gataaaaaga aggggaagaa acgcggaagg aaatctaaag taagtcgtga ggtaacttct 360  
 gaaggtgctt ctgcagagaa gaaaaggaaa agagttcaga aacaagcagc tgaaaattgt 420  
 aaagaagaat gatgatgggg atgatgctga tcttgctggt tc 462

<210> 38317  
 <211> 430  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 38317

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 cggagtaaac gttacttccg tggccctatc cgtcgcgcgt aaagtcggag tcacggcgaa 180  
 gaagaccttc tcccattagt atactgtana ctccgctggg aataaaatct cggcgtcttt 240  
 cgcattcggt cccaacgcga ccaacggagg gctatacgtc ggaaataagt ccgttacgta 300  
 ggagcctacg acttcnttaa tcggcgcttcn tctgcctaag gaggttacga agacgggagc 360  
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 cgccggggac 430

<210> 38318  
 <211> 384  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-024-Q1-K1-D1  
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gaccatgatc ctcatgcaac ctcatatgct gtcacgaaca ctcacagcaa catggatcct 240  
gttgtagaga taagtatctc tcagttacat gacatcactg cgctaaaggc caatcaagga 300  
tacaggaaaa gacatgtgtc acatgagaaa atttctgatg agacagcaat tgcttgaata 360  
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<210> 38319

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-D10

<400> 38319

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cctcctcggc gccctatgcc ctctaactcg tcaacgaaac ggaagtattc gatgctagac 180  
tacattcggc ggtaatcact taccaaatcg aatcccatcg caatcgtatc gcctaactaa 240  
tcgcagtggt caaccagtca gtccgtcatt cgttgggggc acggtaaacg taaaaatcga 300  
tacaagctat taggagcaag cgcaatctct gagcttcgtc tccgccatcg cccgggcac 360  
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gct 423

<210> 38320

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-D11

<400> 38320

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tagaagaaaa aggaaaagaa acggacgttg acgagaagta agaagaggaa gtagaagaaa 180  
aaggcctcgt cgacgagaaa gacgaagacg aaggcgatta gaagacggaa gagaacaagg 240  
aggagatctt gaagaacaag aaagtaagga gcgttaggga cagaagttag ggaaacgaca 300  
acaaatacga cggactaaaa ctgaggaag ttaaaagccc gtcgaatatt ttaagtttac 360  
acggcattga ctgcttctaa tgcgagagga aaacagcgga aaagccggcc gaagcgaccg 420  
agaaagagtt aaataggaac cctgc 445

<210> 38321

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-D12

<400> 38321

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gtagtcgtta gtcttgaaac tggcggttg actgtttacc tctcagagtt gcggagttgt 180  
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tatcaggtcg ggaaaccccg actgcgagac ccccccaact tctacttttg atcgtcgctg 360  
cgttccttct ccgtttttcc gacgccgcaa attaaatcaa cgcgtgtcgg cgcccgccg 420  
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<210> 38322

<211> 459

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-024-Q1-K1-B9

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tctgaccgta actaaccatt gaaaaaacga atccgaggag aaaacgccgt cgaatccgta 180



taaaaagaaa cggatagacg ggtcaacccc gaagaggccc gatattctacc taaaaattaa 240  
tgagtagatc gcttaagaaa cgtcaaattc agttactaag cataataagg tggcgtaaga 300  
ggaagatgaa tcgttattcg agaaatccgt gacagtaaac gcaggctggg aagacgtaaa 360  
aaagtaccgg gaagagtacg cgcttaaccc gacgctacta aatacagcct agatttcagg 420  
aattacgtct gatatggcgg caccncagct ctcatcaac 459

<210> 38323  
<211> 337  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-A4

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ctgttccagg tgatcctgca gcgacggccc ttcattgtacg tgggtgcgcga cctccgggag 180  
aagtacgggc ccatcttcac catgcggatg gggcagcgca ccctcatcgt ggtcacctcg 240  
gcggagctca tccacgaggc gctgggtgaag cagggcccca tgttcgcgag ccggtccgag 300  
gacagcccca cccgccttct ttcagcgtcg gcaagtg 337

<210> 38324  
<211> 373  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-A5

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ccccgcccag tctcactcac acgtcccccac ttccgagtct cgctcgcagc ctgtttctct 180  
ggggtcggat cggagggggg tgaggagatg gagccagatt cggcgacgac gaggctcgca 240  
ttgctggcgc tgctttctct ggcgggcgccc gcccggccgg cctcggcggc tccggtggag 300  
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373

<210> 38325

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-A6

<400> 38325

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ccccgcccag tctcactcac acgctcccac ttccgagtct cgctcgcagc ctgttctcct 180  
ggggtccgat cggagggggg tgacgagatg gagccagatt cggcgactac taggctcgca 240  
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gatggcctgc tcagcaatgc tgactctgaa accggaccag cctccagatt cgtaagatct 360  
gcgtctgttg ctgaggggtgc atacgatatc cctggttgga caatcaatgg cacagtcgag 420  
ctcatttc 428

<210> 38326

<211> 477

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-A8

<400> 38326

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accccgacaa gcacccgccg tcgtccaggc cggaggccga ggcgcgcttc aaggccatca 180  
gcgaggccta cgaggcgctc ctggaccagc aggagaacag gggcgtgttc gagctgtgca 240  
acgacggccg ggcgggtgag aggacgcgcg ggccttcgg cggcgccggc ggcggcggtg 300  
gcggaggagg aggaggctc ggcgccggcg tcggggcgcg catggagagg acgcgcagcg 360  
acgggttctg cagcaggagc gcgcccggca cgccggcgag ggagttcaag aaggtgtaca 420  
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<211> 463  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-A9

<400> 38327

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gtggggtttcc tcaagacagt gcgtgttatg gtcgtcgtgc cgcgtgagag gggtgcttag 180  
gctgctacga atttaaataa ggaacacgat acgtctaagc tatagaccgt agacagtaaa 240  
gtaagtcacc gggaatgatg tcttgataat tattatatgt tctaggcccg gtcagcagat 300  
agtactgatg atgaggaata gaagacggtg ttgaaaggag ttgcacctgc tctaactcta 360  
tagcctttta ctaagaaaac ttgtaaggac cgtattcatt cgagtatctt agtaacgaag 420  
actttcgaaa ttacgtaaaa cacttacgtt cgtgagaatc ggt 463

<210> 38328  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-B1

<400> 38328

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ggagtgggca tatacgtata ctgaggggtc atgcctcaaa tt 102

<210> 38329  
<211> 371  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-B10

<400> 38329

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tgaggtcctg acggtgggtc tgatcgggtt attgatgatt atccttctaa taatgttccg 180  
 agtattcatc gtgaggcttc tgagctgaag actacttcgg actgggagat gtagaggctt 240  
 tgtggtcctg gtctgtctat tcctcttatg gaggatgtga cgtgtagtgt tactgagggt 300  
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 agttgcggag g 371

<210> 38330  
 <211> 443  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-024-Q1-K1-B11

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 aatatccgac cgacctagca ggcagtcagt cagtcgaact ataacggact tcattaagcc 120  
 ttgcttgctt agcagttatg atatgatggc gatgatgatg aatgtgggtg tcttcgcgcg 180  
 gaatgataat gaggtgtcga tcgcgggggt ctgtggcctt acttcgtcgg aggatcatta 240  
 ttcgactgag aaggcgggtg atcctgtgtg tgagtgtaca ttggagtgtg cggcgtatgt 300  
 gtgtgggggt cntgataagg gtcctcctga gcgtatctat gatgcgatgc tgcgatgcg 360  
 tgttgatcct tcgtgtgtgt ttggtgcgtg gatgtttgcg actgcgtgtc ctctgatggc 420  
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<210> 38331  
 <211> 430  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-B12

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 acggatgcta ggagtaaagt taggatgtcg catggattcg ccgacgattt tagtaagtcc 180

ttgaagcggg atcctaattgg tcatagtatt ggttaagtct tgggtgatga tagtgaagct 240  
 acttcccgtt tctgggttac tcctaaggat ttgcctacga aggggtagaa tacatcggct 300  
 acgcgtgatc gtcattgagtt gaatggggag ttgactttga gtaataagtg gtatgggggtt 360  
 gtgaagactc ccagttatatt cgatgctaag gtcgatgaat tacggcctgg gaccgagtaa 420  
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<210> 38332  
 <211> 410  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-B2

<400> 38332

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 gatgcttggc cccatcgaac aacggtgagt cttgctctgg tatttgattg ttctaaacgc 180  
 atggttttgt ttttgtgatg atgtgcaggt tccgatctgt ttcgtttgat tgatgagttg 240  
 acgcattcggc tcgaaacgag gctgcatggc ttttgtgcct ggaggtttct gattagcgtg 300  
 tttaaggaaa ctgggtgccca caatttggtg ctagaagtgc tcgatccgtc gaattgatat 360  
 ctgccgagct ggcacgttcc gggggatctg gatcttagcg gactggacat 410

<210> 38333  
 <211> 242  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-B3

<400> 38333

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 gatgctatcc ttgatcttat tttattgtat tttatattta gcttggatca gttgggggtc 180  
 tgaacattgc tagtgtcatg tgattgggaa ggctaagtgt atgccttcga tgcagagttt 240  
 tc 242

<210> 38334  
 <211> 333  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-024-Q1-K1-B4  
  
 <400> 38334  
  
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 gccatggcca ccgctgcccg ctccctccac ctccctggtc cgacgcctcc taaatcctct 180  
 acccccttct cccaccgcct ccctgtccct tgccacctcc gcccgcaacg ccggcgcttg 240  
 gccgactcgt cctccgacct cacctgcttc cccgaaccga ctaccgtccc gaacggcgctc 300  
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<210> 38335  
 <211> 454  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-024-Q1-K1-B5  
  
 <400> 38335  
  
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 ttcaaagaca actactgcaa aggtgtggtt aattggggat ggtctagatg cttctgagca 180  
 gtttaaggca cagaaaggga cccagtttat cccatattca cagtttccac caagaatggc 240  
 acgcaaggac acctgcacct actcgacaac tcctgcaatg gttgtacctt aaacactaca 300  
 gaatgtgcac tctgtgaga attggctgcc aaggagggtc atgagtgcac ggcgcatctg 360  
 tggaatgggt catgcattgg aaggatggaa cgagcatgag tgtggggaca tcgtgctaga 420  
 catggagaaa atgtggtctg gtgctcttct gcat 454

<210> 38336  
 <211> 470  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-B6

<400> 38336

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gggataccca acagttctgg cttctcgcat cacatattat atcccataat cccatgagtt 120  
cgcattcaca tctgcggcag tgtgatgaat aaaatgatcc atgttaaadc tcttggacct 180  
aatacggcta tagcaataat cctgtgtcaa cttagctcga gctgttctac gagtgttgag 240  
acgcttatac tctgtgtact agttatcgaa ttctgtata gcagcttgta tgacactaca 300  
taatgtgcta taatagtcac actagctgcc aaagaaggta atgagtgcac gccgcattgc 360  
tggaatgggt catgcattgc agggatggaa cgagcatgaa tgtggtgaca tcgtgctaga 420  
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<210> 38337

<211> 445

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-024-Q1-K1-B7

<400> 38337

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cgctgctgct gctggcgagg ggggcccggg cggcgctcgg gccggtgagc tgcggcgagg 180  
tgacgtcgtc ggtggcgccc tgcctcgggt acgcgatggg cagcgcgagg tcgccctccg 240  
cggcggtgct cagcgggggt cgctcgctca acagccgcgc gtcgtcggcg gcggaccggc 300  
aggccacctg caactgcctc aagagcatga cgggcccggc cggcggcggc gtcagcatgg 360  
ccaacgccgn caacatcccc ggcaagtgcg gcgtctccgt cggcggtgcc atcagcccca 420  
ccggcgactg caccaagatc aactg 445

<210> 38338

<211> 492

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-B8

<400> 38338

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tggtttggat aagagaggca accatccatg ttttgatcca agaaaggatc tagtgcttcc 120

ggcatggaag gaacctaacc caggggccat atggttaaaa ctgtgggcaa ggccaaggaa 180

caaccgtaca acactttttt atttcaacgg taatctaggt tcagcatacg aaggaggccg 240

tccagaagac acgtatagca tggggattcg gcaaaagcta gcagctgaat ttggttccac 300

accaaacaag caggggaagcc ttggacggca gcatgcggcc gatgtgacag ttacctatct 360

acgaactgag aaatattatg aagaactagc aagctctggt ttttgtggtg tcctgccaag 420

ggatggctgg agtggccgta tggaagatag catgcttcaa ggatgcattc ctggaataat 480

tcatgatgga at 492

<210> 38339

<211> 440

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-024-Q1-K1-A3

<400> 38339

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gtctcttccg aaggcgctgc gcgcggttgt ttgagaggag aggaggaaga tgagggagtg 180

catctccgtc cacatcgggc aggccggcat ccaagtcggc aacgcgtgct gggaacttta 240

ctgcctcgag caccggcatcc agcctgatgg ccaagtgcct ggagataaga ccgcgggaca 300

tcacgatgat gccttcagca ccttcttcag ccagactggt gctgggaagc acgttccccg 360

tgcaatcttc gttgatctag aaccactgt gatcgatgag gtgcgcactg gcacgtaccg 420

ncagcttttt caccctgagc 440

<210> 38340

<211> 297

<212> DNA

<213> Zea mays



<223> unsure at all n locations  
<223> Clone ID: LIB3069-023-Q1-K1-G2

<400> 38340

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gcctacaaag ggctcgcgtt cgtgctcccc aacgccaacc gcgacggcag cctgtccgtg 180  
gccatctcgc tgcaggcgga gcacatggag aagttccgga agctcatcta cgacttctga 240  
tctccaactc ctncaccaca gtcacagta ccagtagcgc caacacaaag aagcaag 297

<210> 38341  
<211> 398  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-G4

<400> 38341

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cccgaaggag gcctttgaag gtggcaatcc gattcctaac ctaactattc caaaaaagtt 120  
ggtggacccc ttggtcttgg aaaagcaatc ctaaaggtg agccctctgg attttgtgct 180  
gcagcttatg gagatgctga ccgcaacatg attcttggta aaagattctt tgtgacaccg 240  
tcggactctg ttgccattat cgcagccaat gctgttcaat caattcctta ctttgccttct 300  
ggcctgaagg gagttgccag gagcatgcca acatctgctg cccttgatgt tgttgcaaag 360  
aatttgaacc ttaagttctt tgaggcgcct actggatg 398

<210> 38342  
<211> 307  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-G7

<400> 38342

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acgagcacgg acgagcggtc acgcgaaaca tcacagtcaa aagagaaacc cagccaacag 180

actggaggcg cccatgcgcg ccttcattac aaacacagaa aagaccgacc ccacgccaga 240  
 tcagagagtc cggcgcgcgcg gcgctcgcgt cgctcagacc ccagagagag accagagcag 300  
 agcgcgcg 307

<210> 38343  
 <211> 404  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-023-Q1-K1-G8  
 <400> 38343

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 ttggagattc agaagaccgg catgtgaaag aggaaactga agatcagcca acctcaatga 180  
 atgcattoga actgatttca ctaaaccagg cactgaatct ggagaatttg tttgaagcaa 240  
 aggaggagta taaaagagag acaagattca cctcacagtg cccccgaaa gagataatca 300  
 caaagatoga agaagctgca aagccgcttg gctttgatgt tcaaaagaaa aaatacaaga 360  
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<210> 38344  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-023-Q1-K1-G9  
 <400> 38344

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 actaaaggag tggctggtat gggatcttaa cacatggagc cgcccaccgg atgtatattt 180  
 taaccaaaca agcaaaactg ttccagcgat tgacagttga tgaaggatcat tggttgtatt 240  
 gtatgctaaa ctgctgcagc aatagaacac actgattgcg tggaagttac tcttccatgt 300  
 gcctcgagtg caaagcagag acaaaaaaac tgtacgtgtt gtagacttgt agctggtgct 360  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-023-Q1-K1-H1  
  
 <400> 38345  
  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-023-Q1-K1-H11  
  
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 tattgccatc tggcttatct tatgaaagga gatgtgtcac aaggaactac aagaccgaga 240  
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<210> 38347  
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 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-023-Q1-K1-H2  
  
 <400> 38347

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aggcatgcag ggttatggat gaaaatgttg taattcgagc ttccgatctt gatattgctt 240  
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ttggagcgcc ttacatacat tcgaagctaa gcaagtgggc cgaaatgtat ggtcccttct 360  
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gaacatcac 429

<210> 38348  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-023-Q1-K1-H3  
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agcagaggtd ctggattdgt tgcttdcaaa tctgctgaag atgctaaccg agctcttacg 180  
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<210> 38349  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-023-Q1-K1-H4  
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caacatatga gaacttcagg tatcgctatg atcagcgaga caaccatac aacaagggag 180  
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<210> 38350

<211> 287  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-023-Q1-K1-H6  
  
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 ctcttcgtct tcggcaccaa ctccctctgc gccttcgcgc tcaacctcgc cgtctttctg 240  
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<210> 38351  
 <211> 371  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-023-Q1-K1-H7  
  
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<210> 38352  
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 <212> DNA  
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 <223> Clone ID: LIB3069-023-Q1-K1-H9  
  
 <400> 38352  
  
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tgcctttgta cagagaagcg gtgatgagtt ctcacagaag gtgacgcaaa gtgtactgct 120  
 gtcttatgag atgctgactt agacgaacat tgtggagtcg aatgagtctg caatcgggtga 180  
 gctgcaattc acaaccaatt atctcatgcc atcattcttt tgctttcccc tgtatatattt 240  
 ttcaaccggt gtcactcgta tagtggtggt gggtctcttt agacaaactc gggacgggtg 300  
 cttatcctaa aaattcgatt gtactgcgtg gcatgaaatg atcgattcga agaataattt 360  
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<210> 38353  
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 <212> DNA  
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<223> Clone ID: LIB3069-024-Q1-K1-A1

<400> 38353

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 gctccaacaa ggcaacacat tccatcgga ccaaccacgc gcggcgccac cggcgacccg 180  
 tgcccacttt ctaggagagc gatagccacg gagctgacct ctgcgcaact gagcacgtac 240  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-A10

<400> 38354

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<210> 38355  
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 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-024-Q1-K1-A11

<400> 38355

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gagttcatcg tggctaaagg ggaggttcat atatttgatg cccaacctta cgacaataaa  180
ccacgggaga gtaaggtcta tagagaaagt ggagctcgcg gccgagaaga cggaagaacc  240
gggacctaaa ttaaatacac cgatatagga acgtttctact acaacgcagtg tctaccgcga  300
ccgcgcacta caggtttggg atgcgcccga cgagtcgcgc attctgtaga ataaagcgta  360
ttcactcctg ccgaatctga cgtcggaagt tcatcgtagc aatcgccgtt atatagaagt  420
agactgggtcg tcggacat                                     438

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<210> 38356

<211> 468

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-A12

<400> 38356

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ttgttgaggg agatgtcgtc gattcgatga atcgagttaa tggatgagaa ggaggggtat  180
attatgtagg agattggagg agagtgtgtg tgtggactta ttctgcacat atctcttctc  240
ctctctttgc gcttcgggtc tagaccagc cgtcgtgttg tcctccagga ccgaccgtcg  300
tcctatctag cgactgtgct gctactcctg tgcccgtcca actgttcggc cgtcgtactg  360
gcccccccc ccggcgccgcg cggccggggg cgtgggtata aggcccttct tcgcccagtt  420
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<210> 38357

<211> 363\*

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-A2

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catctgactg ggcaataactg tgcataaccga ccaaccagc aggatgaaaa ccatgaccc 180  
tgctgcttct accaccaagg gaagggcacg cagcttacag gcgggcaact acggccgtac 240  
tagcgactgt aacagctgaa agcgatgtac cagttgatgc tgctcactgt gtacgatgta 300  
actcagcggc cgccggctct acagactgct ctacagacta ctaccgaatg accaccacga 360  
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<210> 38358

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-G12

<400> 38358

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gtgcagtcgg ttgtgcggga ggagtggacc gccgaggtgt tcgacggcga gcttctgcgg 180  
taccccaaca tcgaggagga gatggttagag atgctgcaga tcgccatggc gtgcgtgtcc 240  
aggacccccg agcggcgtcc caagatggcg gacgtggtga 280

<210> 38359

<211> 306

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-023-Q1-K1-D9

<400> 38359

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ttggaacata actttctgtc actagatctg gttgagcagc tttagaactc taacatatct 180  
 aaaagcataa gaagttaatg tattttataa tcaaaatgac tcattcttgac aaaattgaat 240  
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 aatctt 306

<210> 38360  
 <211> 308  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 tactactgtt gcagctaacg ggagatccat atttgcatgc ttgcttgata aagtgaacca 120  
 atacttaact gaagggcttg accgtgctag agagagtnta aatgaggccg cagctttgcg 180  
 ggatagatat gtcacgga caagtgttag taggagagtg gcagctgctg ctgcttctgc 240  
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 gcgttgta 308

<210> 38361  
 <211> 293  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 cctggaggtc attgcccgcg acggcaacat gcccaacctc atcctcttca ggctccggg 180  
 gactgggaag acgacgagca tcctggcgct ggcgcatgag ctctcgggc ccagctatcg 240  
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<210> 38362

<211> 462  
 <212> DNA  
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 <223> Clone ID: LIB3069-023-Q1-K1-E4  
 <400> 38362

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 tgatatccgt cgtctaacct agtacgcaat tctagctagt aaccagcagg atcaaatata 180  
 cttcctttttt cttcataaaa aaaaatatat agattcccat tacaagtgt agctagtgcg 240  
 catgcactaa ctggtataga atagatagat acaatattat tctcgttggt gggcggagat 300  
 gaaatatact atcgatcacg ttgtatttga gaacgtagag aatatgttag tacacaacga 360  
 ctatatatag ctaggcagca tgcaggtggc cacgtactca ttatcaatca cgttggatta 420  
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<210> 38363  
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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 tccccacatt gctacgcttg cggtcgtga ttccaccgcc ctgtttgagt gaccatactg 180  
 ggacgtgcca ctcggtccga gagacttgct cggtgcaagc atccagagct ccaacaatga 240  
 catnagagac tgcaacaaca cactacctac tataatctca aagtttaagc gccacggcct 300  
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<210> 38364  
 <211> 405  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-E6

<400> 38364

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attataagcc gtcattctca gctgaacctg tagctcctgc tgaatcaaag gctcaaccag 180  
aaccttcaca accaaaggtg gaggaaaaaa agcttaccca ggctcctgag gttaaggccc 240  
caaagattga agaagcttct caatctggag atcgcatatt tgccagccct cttgcccgtg 300  
aactggctga agataacaat gtcccactat caagtgtgaa aggtactggg cctgatgggc 360  
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<210> 38365

<211> 484

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-E7

<400> 38365

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tatcatcatt gacgttagca taaaatgag cattgaatgc taacgtcaat gatgatatat 180  
acataaatgt cgatactttg agtgcaatgc tcgaaactca ctgggacagg cctcgtgtct 240  
atataggttg catgaaatcg ggcgaggttt tctctgactt aaccacaag tggtagaat 300  
cagactgggtg gaaatttggt gatgggaaat cgtactttcg acacacttct ggtgaaatgt 360  
ttgtcatatc cagggccata gctcagttca tttctataaa caagtccgct ctccggacat 420  
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<210> 38366

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-E9

<400> 38366

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cacgccgcgc cgctgcccac gggcgccccg cgcggacgcg accgcggcct tcgcgccttc 120

ccctttctct tcatcatgtg ctgccaccgg tgcacaaaca aggctgcagc tctgcggcag 180

gagccagagg cgcggcgggc tggcgcgggg aggtggcggc ggcgggtggg gcaaggggga 240

gagtggcaag aacggcgcgg cggcgttctt tgatgaagac ggggtggtgg acgacatgga 300

cgggtacctc aactacctgt cctcgcagta cgactctgtc tgggacacca agcctgcctg 360

gtgtcagcct tggacaatat tgcttacggg aact 394

<210> 38367

<211> 390

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-023-Q1-K1-F1

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acaaatatgc ttcttctgta gtcgtaattt tacagtttagc tacaataatc taataacata 120

gcaattccag aatttgagcc gaagtgtggt ttgaagcctg tacttatcat tattttccat 180

atatacacia ctaatacaga atatgacacc acanaaagta ttcttcaaga gaactaaata 240

gatatttgca ctaacacttg ctcttgtctc atcctaaatt tgacattatc tgaaggttat 300

aaaatagtga gctacaactg atacaacca ctgcaaccga agaagaaatt cagaattcct 360

agccacaaaa ctacgaagac aaaaatgtcg 390

<210> 38368

<211> 370

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-023-Q1-K1-F10

<400> 38368

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acagctagcg cctgctcccc ttncctgtg atcatgtctt gcagcagcgg caagtgcgac 120  
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 gccgcgcgca gcagcatcaa gaccatggtc ctgctgctgc cgaccaccaa ggccagcgcc 240  
 ggcggcttcg aggcgccac cgagggcggc ggctgcgact gcaacacctg caagtgcggc 300  
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 <213> Zea mays  
 <223> unsure at all n locations  
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 <213> Zea mays  
 <223> Clone ID: LIB3069-023-Q1-K1-F5

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 gcaagtcggc cccggccacc ggcggtgga agaagcccca ccgcttcgc cccggcaccg 180  
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 ccttccagcg cctcgtccgc gagatcggc aggacttcaa gactgatctg aggttccagt 300  
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<210> 38371

<211> 410  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-023-Q1-K1-F6  
  
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 gccttctgaa agtcattggt atcggggctg gaagccatga ctttctacat gttcaggccc 240  
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 aagttttgct atgcggttag aggaccatag cgcgctcagg tcatgcgcca tggggctgcc 360  
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<210> 38372  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-023-Q1-K1-F8  
  
 <400> 38372  
  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
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 gagatcctgg gccgttattt gccgacaaa gtggcagctt gttggaccac ttgggttatc 180

aagggggagg aattccacaa catgagtctc caacactgga tcatggactt ttggttgatc 240  
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<211> 398  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-023-Q1-K1-G11

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tcacggcggt gccaaactgcg gcaaaccatg ggtcttattc tccatcacct gcaccaggac 240  
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<210> 38377  
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<213> Zea mays  
<223> Clone ID: LIB3069-023-Q1-K1-B6  
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agtagtagga agacaagtcg agcacgatgg acagagtagg catcacccaa cagatcgatc 180  
gtcatgagct cagaaggatt ttatgagatc aaccaaactg gttaaactcg tgcggggcga 240  
cgcagtttcg tcgacgtcga cgccgatgcc gatgcctttg gccgcagcga tcttgaattc 300



cttcacccctc tccttgatct cctccccctc cttgggtgcc aagagcctgt cgat 354

<210> 38378

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-023-Q1-K1-B7

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tttcaccatg gattttttta tgtcttcaga ttgcaagttt gcgtttttgtc gatggagaag 180

acattgatga tgacctatat gcattggcat gcgaacctga tttgcgagtt cgaatttttt 240

ctgcatgtct tgttgatggg gtccggtacc acaccattga ccgtgagaga aatagaagaa 300

cccaaaatag tggagtcatt gttgagggca ctcataataa tgaatgcatt gatttttatg 360

gctgcttaaa agaaattatc gagttgcagt ataactcana tttgatggag ca 412

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<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-B8

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gcaaggccaa cgctccaag aaggatgagg gcaggctccg ggccggcggc ggccggcgccg 180

gaaagcgcaa gaaggccgcc gcgagcggca agcccaagcg ccctccctcc gccttcttcg 240

tcttcatgtc tgaattcagg caggagtacc aggcgcagca ccctagcaac aagagcgttg 300

cgcccgtag caaggcagca ggggaaaagt ggcgctctat gtcagagcaa gagaagcaac 360

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<210> 38380

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 gttaagaagc cccaccgctt ccgccccggt accgtcgcgc tccgggagat ccgcaagtac 180  
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<210> 38381  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-023-Q1-K1-C11  
  
 <400> 38381  
  
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 acatgcaa at tgtgcagctg gtctttttga tgtcaagaaa atccctctac aaatggaact 120  
 cattacgagc acggatgtgg tcatgaatct cttgaagaaa atggctcccc ctcttgttac 180  
 tctttttgca gcaa atcctg aaattcacca tgtaatcttg aggaacatta atctgatagt 240  
 tcaaaagagg gctaccatac tccctcatga gattaatgat ttcttttgga agtacaatga 300  
 ccctatatat gttcagatgg aaaagctgga gactatgatg cagcttggct cagatcgaaa 360  
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<210> 38382  
 <211> 279  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-023-Q1-K1-C2  
  
 <400> 38382

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 gaggtgaggc actattctcc tctattgtaa ttcctaacc ttggacgcaa cctgatcccc 120  
 aagaaagacc gtgcagcgcg ggctgctcgt tgatcatgcc agcggggaac agcaagcaga 180  
 caaagcagca cgcaccacgg gccttcgctg gtctgcctgc ctgtgcaggc gtcgngtaaa 240  
 tgtattgtat ttgcagggat cctgtttaca gcgctagta 279

<210> 38383

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-C3

<400> 38383

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 tccggcgcaa gcgcaacccc aaccggcggg gggttcggac cgccgccggc cgggccaggg 120  
 ggggggaacg ccttcgtgca ttaatactac aacattctgc accaatcggc ggagctcgtc 180  
 taccgcttct accaagagtc cagccgcctt tggcgctcct ccggcaccgg cgacgacggc 240  
 atggagacgg tcacctccat tgacgcgatt aacgacaaga tcgtgtccat gggcatcgac 300  
 cgggcggaga tc 312

<210> 38384

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-C4

<400> 38384

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 cagccatatac taatcaatca ttctcagtca ttaogcaaca tgtttgacaa cactatntag 180  
 gaagacatgt tgacagataa tcataaagc gctaattgat catacacatc acatttcctc 240  
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<210> 38385

<211> 377  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-023-Q1-K1-C5  
  
 <400> 38385  
  
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 ttgaactggg tgtttggcct ccagccctgt gcaagaagat ggaggtccca tactgcattg 180  
 ttaaaggaaa ggctcgctt ggatcgatcg ttcacaagaa gactgcatca gtcttggtgc 240  
 tgaccactgt caagaacgag gacaagcttg agttcagcaa gatcttgag gctattaagt 300  
 ttgatgaagt caagaagaag tggggaggtg gcatcatggg ctccaagtcg catgccaaaga 360  
 ccaaggccag ggaaaag 377

<210> 38386  
 <211> 304  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-023-Q1-K1-C6  
  
 <400> 38386  
  
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 actttcaaga agctcctgca aatacggctc gctggactga cattatccat tggatgtggg 180  
 cactcttcat ggaaagtgg ggatcatgga gaaatgagtg tctgaatctt agccccattc 240  
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 tact 304

<210> 38387  
 <211> 429  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 38387

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 ggcgatgacg ttgagatggc cgacgccgac tcggatacgg aggaagcccg agcagctgag 180  
 gtctccgctg caactggagg atccgccgga ggtgttaggc aggcggagaa ggacggaccg 240  
 gatggaaaga agaagaggaa gaagaggagg aacaaaggga agaagaacaa agggaggcaa 300  
 gatggggcgc ccaccaacat cgcggacatt aatcgatttg ttcttaacac ttgcaagcgc 360  
 ttgaaggaga agaagtcgta ccttgtctgg aatgctgttg gctgccttgg tgtcactgct 420  
 gtcaatgat 429

<210> 38388  
 <211> 237  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 aacgacgagc agagcagtag ctatgataga tccatggcga acgcgggcat gaagccggtg 180  
 gccggactcc tgctgggtgct caacttgtgc atgtacgtca tcctggcggc ggtgggc 237

<210> 38389  
 <211> 458  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-C9

<400> 38389  
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 gccggggaac gagaacgacc ttcacctcca ggagctcgcc cgattcgccg tcgatgagca 180  
 caacaagaag gccaatgctc ttctgggggtt cgagaagctt gtgaaggcca agacacaagt 240

ggttgctggc acgatgtact atctcactat tgaagtgaag gatggcgaag tcaagaagct 300  
ctacgaagct aaggtctggg agaagccatg ggagaacttc aaggagctgc aggaattcaa 360  
gcctgttgaa gagggtgcta ggcctaaag atctctcctt ctccatgtgc gagcctgaag 420  
ctcaaagcaa aagtgcagaa taagaatcat gctccctt 458

<210> 38390

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-D12

<400> 38390

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aatcagggga cacttggtga ctggaagccc aagaaacccg acatgcttgt tgatacattt 120  
ggttttggcg ggatcatcca ggatgggatg gtgtttatgc aaaacttcat tattcgggcc 180  
tatgagattg gtgccgatcg tactgcttct atagagacat taatgaatca cttacaggaa 240  
acagctctta accatgtgaa gacagctggc ctttttggag atggtttttg cgccacgcca 300  
gatatgagca aacgaaactt gatctgggtt gtcagcaaaa ttcaacttct tgttgagaag 360  
tacctcttgt gggaagacac ggttcaagtg gaca 394

<210> 38391

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-D2

<400> 38391

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atcgcaagga caaatgaaaa gcattctgaa gttgcagcgg catatctaga ggcacagcaa 120  
ataaaagcaa gagagcacca gcagcagatg cagatgcagc aattgcaact tatgcatcaa 180  
agacatgctc aacttcagcg aactaacgag aatcatcctt cacttaatgg tccaataaat 240  
gctttaaatt ctgagggcat tttggggcca tcaacagcta gtgtcttagc tgccaagatg 300  
tatgaagagc gattgaagca cccacattca atggagtctg agggatcaca 350

<210> 38392  
 <211> 259  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-023-Q1-K1-D4  
  
 <400> 38392  
  
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 acatggccca cataaccggg ttcgtcgccg cccaggaagc tgcaaatect tttgaatatt 120  
 gtgatgtggt taccacaacc acgcacaagt ccctcagagg gccaaagggt ggcatgatct 180  
 tctacaggaa aggccttaag ccccccaaga agggccagcc agagggtgct gtttatgatt 240  
 atgaagacaa gatcaactt 259

<210> 38393  
 <211> 350  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-023-Q1-K1-B3  
  
 <400> 38393  
  
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 agatctagag ggcgggaacg tgatgctagg ggtagggatt ctggatcatg atagcagggg 120  
 tcgtgactct gatcgcgaga gggatcggag acgtcgctct agggatagaa gttcaggaca 180  
 ctcatacaag gagaaatcaa ggcgccatcc atcacacgac cgagttgact actacagttc 240  
 gcattcatct cgtgaaaaag atcggcatag acaccattga tcccgggtct gcagggcttt 300  
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<210> 38394  
 <211> 221  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-023-Q1-K1-D6  
  
 <400> 38394  
  
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tctgttagca ggagtcttca ttgcgccag cacctgctga acctacactg gatcatttaa 120  
gatccttggc gaggaagctg cttgctgggt atattgacat acccacaatc acaaactga 180  
gatggtcctt gggatactat taaaagatgg aaactattga c 221

<210> 38395

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-D7

<400> 38395

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ttaaagcgag cagggctgac tgaagaacaa ttgcaagagc agattgagca gagaaatgtc 120  
gcaaggaaga ataagcagtt tgagatatct gatggaatca ggaaaaacct tgctaccaa 180  
ggcatcgccc tgatggacga gccttctggt acagtatgga gaccatgcga accagagcgg 240  
tctgaagagt catgattagc tcactgactc aacaagtgat ggtgggtgtaa aatgagattt 300  
ttgcctgagg gcagttatca cattttgaag actaacaaaa atcgccatct ctggatgtgg 360  
tattctacag ggtaggggtt ccaggttgac tcaccagtta aaacatgcat ttctggttgt 420  
ataacaagca atgaaccccg tatatatac 449

<210> 38396

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-H3

<400> 38396

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gttgaggcga agccccggtg cgtaagagtc tgccatggcc agcgagaata aggtcttttg 120  
gttcgaggaa gtcgccaagc acaacgtcac caaggactgc tggatcatca tcgccggcaa 180  
ggtgtatgac gtcactccgt ttatggatga gcatcctggt ggagacgagg ttttgctagc 240  
tgtaaccggg aaagatgcta cagctgattt cgaagatatt ggccacagtg attccgcaag 300  
ggacatgatg gagaagtacc acatcgggca gatagatgct ttaacaatcc cagcaaagcg 360



tgctcatgtg cagccccagc aagcaccc 388

<210> 38397  
<211> 401  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-022-Q1-K1-H5  
  
<400> 38397

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ccgcgccatc tcgcgctgct cctgcccctg ctactgctgg cctcgccggc ggccacgcgc 120  
ctggcgctccg ccgcctgcgc gggcgagaag ttcccggcgg ggcgtgcgta cgcgtcgtgc 180  
gaggacctgc cgaagctggg cgcgtcgtcg cactggacgt acgacgcgtc caagagctcc 240  
ctgtcggtgg cgttcgtggc ggcgcccgcg gcggcgggcg gatgggtggc gtggggcctg 300  
aacccgacgg gcgagggcat ggccggcgcg caggcgctgg tggcgctggc gggggccggg 360  
gccgcggcgc ccgccgtgcg gacgtacaac atcacggggt a 401

<210> 38398  
<211> 434  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-022-Q1-K1-H6  
  
<400> 38398

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ggagggcatc cctccggacc agcagcggtt catttttgcc ggcaagcagc tcgaggacgg 120  
gcgcacgctg gccgactaca acattcagaa ggagagcacc ctccacttgg tgctgcgtct 180  
caggggtggc atgcagatct tcgtgaagac acttactggc aagacgatca cccttgaggt 240  
ggagtcttca gacaccattg acaacgtcaa ggccaagatc caggacaagg agggcattcc 300  
accggaccag cagcggctga tcttcgccgg caagcagctg gaggatggc gcaccttggc 360  
tgactacaac atccagaagg agagcacctt ncacctgggt gctcgnnctc aggggtggtat 420  
gcagattttt gtga 434

<210> 38399  
<211> 440  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-H7

<400> 38399

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aggagcaaac tttgcatgag agaggatgga aagcaaaagg tttgtattgt tggtttgcaa 180  
gagtatagag tgtccgatgt agagactatc aaggagtga ttgaaaaagg cagtgtctacc 240  
agaagtactg gcacaaccgg tgcaaatgaa gagtcctcaa ggtctcatgc cattcttcag 300  
cttgccatta aacgccgtgt ggatggcaat gactccaaac caccagacc agtcggcaag 360  
ttgtcattta ttgaccttgc tggcagcgag cgtggtgctg atacaactga caatgataaa 420  
caaacaagaa tcgaggggtgc 440

<210> 38400  
<211> 310  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-H8

<400> 38400

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cacggacgag atctccggcg acttcgagag ggccgtgatc ctgtggacgc tggaccagc 180  
ggagcgcgac gcggtgctgg ccaacgaggc ggcacggaag tggaagccca ggaaccgtgt 240  
gctcgacgag atcgcttga cgcgcacctt caagcagatc atcgcgacca ggcaggcctt 300  
atacgagcgg 310

<210> 38401  
<211> 290  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-023-Q1-K1-A10

<400> 38401

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gaaatgaaca agcggtcctt caagtacgcg tgggtgctcg acaagctcaa ggctgagcgt 120  
gagaaaggta tcaccattga tatcgctctg tggaagtttg agaccaccaa gtactactgc 180  
acggtcattg atgcccctgg acaccgtgac ttcataaga acatgatcac tggtaacctc 240  
caagctgact gtgctgtcct tatcattgac tccaccactg gtgggttttga 290

<210> 38402

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-A11

<400> 38402

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gcgcaagtgg aacgcgctcg tggctctgcg gggccccgat gaggagaaga ttacgaagcg 180  
gtcgccccctg gatttcccca tcgaatggga gagacaaaaa cctgggagga gacctgatat 240  
cttccttaag ttcagcccaa tgaagacacc attaccgcat ccattggcag ctgatgatcc 300  
tctggatgat gatg 314

<210> 38403

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-A12

<400> 38403

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caggggcggg cccgcgcctt cggccttcga gtaggtctcc acgccagcca gcgagagcac 180  
cgtcgccccg cggctaaacc gacttgaccc ccacggcgac gacgctccat cgtcgcaacc 240

agccacgagc aagaagaaaa agagaggggc acgggcagtt ggtcctgaca aaaatggccg 300  
 tggattgcgt caatttaaca tgagagtatg tgag 334

<210> 38404  
 <211> 278  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-A2

<400> 38404

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 gtgcctctct tctcagcttg cctgcctcac tgcacccggc cacaagggca agatgcccgc 240  
 ctctgtcgtg gtctaccggg ccaagatggc atgctgtc 278

<210> 38405  
 <211> 265  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-A5

<400> 38405

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 atcacataat atatgagaat cttaggaata aaccaaggtg cttatgagtg aaattttggc 180  
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 cgttgacacg ttgtagtgat cacac 265

<210> 38406  
 <211> 382  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-A6

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 ataaccacag caggacaatt attcctttga actacgaagg tgcggcagaa atgttgtagc 180  
 atttgtatcg cagggacttg agaagaagtt tctccagtgt tctgctactt taggtattgg 240  
 taagatttgc aagttggtgc tgtagtggtg gtgaatggtg tatgttctga tggaaatgtgg 300  
 ttatatgtca aaaaagtgac gttcacagga ttgctgtaca gaacatttgt catgggtatg 360  
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<210> 38407  
 <211> 440  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-023-Q1-K1-A7  
 <400> 38407

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 tatggttttt atgacgagtg caaacgcaga ttcagtgtaa agctgtggaa aacattcaca 180  
 gactgtttta actgcttgcc agtgtcagca ttgatagatg aaaagattct ctgtatgcat 240  
 ggtgggtctat ctccggagtt gaacaagctt gagcaaatac tcaacctgaa tcgccccaca 300  
 gacgtgcttg atactggatt gctctgtgat cttcttttgg ctgatccttc caatgaagca 360  
 acaggctggg ccatcaatga tcgtgggtgtt tcattcacat ttggtcctga taaaggttct 420  
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<210> 38408  
 <211> 106  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-023-Q1-K1-A8  
 <400> 38408

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<210> 38409  
 <211> 264  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-023-Q1-K1-A9  
  
 <400> 38409  
  
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 cttggggcaa tgtggtgtga actgctgata cagattggga cctcttatct gaagaggctc 180  
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 aaaatgagga tggacctcca tcca 264

<210> 38410  
 <211> 307  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-023-Q1-K1-B10  
  
 <400> 38410  
  
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 cggcggggcg tgcgtacgcg tcgtgagagg acctgccgaa gctgggcgcg tcgctgcact 180  
 ggacgtacga cgcgtccaag agctccctgt cgggtggcgtt cgtggcgggc cccgccgcgg 240  
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 cgcttgt 307

<210> 38411  
 <211> 414  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-023-Q1-K1-B11  
  
 <400> 38411

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 tgggtgtggc gacaaacatg atgctgagtg ggtacactct attctggcag acgctgggtgc 120  
 agctaataatg aattcttggga tcctacttcc atacctttgt gctgcattca tgggtgtccaa 180  
 catttggaac ggtgctgttt atgatgtcaa tataggtgga ctcagtaaca atttgcaactg 240  
 cctagcaagg tgtgtaagtg ctgtgattgg gggaagcgaa tacactcggg tcgaaaggga 300  
 gcagcgaata aattctcttt caaatgtgca tacagatgag ctgcaagagg ccgagttacc 360  
 gagccgtgtc tcagcagaag caaatatcaa atcttgtatg cagatctacg tcaa 414

<210> 38412

<211> 137

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-B12

<400> 38412

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 aaagtcccat ttgatcgtc ccctccgggg aaaattgagt ggaggattcc aaaaaaaccc 120  
 ccaaaacgag gccatt 137

<210> 38413

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-B2

<400> 38413

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 agcttgctta tctatcctct gaagattgtc atcaagacct gtggcactac caagctcctg 180  
 ctcaccattc caagaatcct tgagcttgct gaagagctgt ctatgccact tgctgctgtg 240  
 aagtactccc gtgggacgtt catctttcct ggcgcac 277

<210> 38414

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-H2

<400> 38414

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gagcaggtct attcctaattg tgccgcgcgt catcaaaaag cctaccggtt ctactattgc 120  
ctatcatctt tacaaaaaag ccaccaactt cagcgagaag aatatcctga cctattacct 180  
tacacgtggg accctctatg tgaccctatt tacaactgac gaacgtttct ctcaagttaa 240  
tgccctcagct cgcgactccc atctttgtac ctatgactta cacaacacga tgacctacca 300  
ctttatccaa gactcccaga caa 323

<210> 38415

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-G1

<400> 38415

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ttggatgggg ccctcgcttt gatagaacat agcaattgta gcgtcaaaaa taaacaagag 120  
ttgggtagtt taggtaccgt gtttgcgttc attaaagtga agtattctgt atcaccacag 180  
gtaaccttga ttgtggtgac tagttttttt ttgtttgcct caccgtgttc cagtcccct 239

<210> 38416

<211> 154

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-G10

<400> 38416

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cattcctagt gttggttaaa agtcgttcga cagc 154

<210> 38417



<211> 412  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-022-Q1-K1-G11  
  
 <400> 38417  
  
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 gatgcacggc tgcgcgtcgc tcgacgggaa ggtcgttgtg gtggcggacc gtggcggcctt 120  
 gtcctacgat ccttcggcgc cacctgcgga ggcgtgggca ccggtgtcgc cgggtgcttga 180  
 catgggatgg aagggccgag ctgcagtggg tgaggggaatc ctctactctt acgattacct 240  
 gggacaggtc aaggggtatg atccggacac tgattcttgg agcacagtgg agggggttga 300  
 gagggagcta cccaagttct tgtgcggcgc cacgcttgcc gatgttgag gattgctcta 360  
 cttggtttgg gaaggaaagt ggaaaggga attgaaagg aagatggaag tg 412

<210> 38418  
 <211> 451  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-022-Q1-K1-G12  
  
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 tttatgcata tgggggctca agctggatta tcgacagcgg atgcacaaac cacatgacgg 180  
 aggagaagaa gatgttcacc tctacgtca agaacaagga ttcccaggat acgatcatct 240  
 ttggagatgg gaaccaaggc aaggtcaaag gcttgggcaa gatagccatc accaacgagc 300  
 actccatttc aaacgtattt ctagtagagt cgcttgggta caaccttctt tctgtaagtc 360  
 aattgtgcca catgggctac aattgtttgg ttacaaatgt tgatgtttct gtctttaaga 420  
 gtgatgggtc attagcattt aagggtgtat t 451

<210> 38419  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-G2

<400> 38419

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ccaactgggt atagaagtaa gttgtgtttt ctctagtttt aatggtatca taaataagtt 180  
taaacatggt tgaacaataa cttatttgaa caccgtagca atgtgtgagc actcttcaaa 240  
tgtttggtat aaaaatactt gtaaatagat ttgttagttc ttactgcaa ccaaggatgg 300  
tttcgattct gtggcgctga cgggtgtttc cgcgacctgt agcaggtccg acaactgcct 360  
agaggcacac actagagcag acagaaagga tctctgtata ctctctgtga tcttggaatc 420  
agatcgttt 429

<210> 38420

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-G3

<400> 38420

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aatcaaaca tttttgggga agtaggcattg aactaatgct gggaaacact ttcatttcca 120  
ataaagagtc aaccccaccg caaggggagg tgccccctca ggatttctct aggcgtgttt 180  
tggaaggggt ccaagtcacc ccaatatggc atcaagggtt catacgtgat gatggaaggt 240  
caaactacgt gccaaatgtc caaacagctc gctgggagta cagcactcgt ccagtttatg 300  
ggtgggggtga tgtcaaatct aagcagttgt ccacagctgg ttggcttgca gcttttcctt 360  
tctttgaacc tca 373

<210> 38421

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-G4

<400> 38421

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cttcgtgaca ttcgaagatc gaagggcagt tgacagcgct atcaaagaga tgcgtggcca 120  
agagttagat ggctgtacca tctcagtga caaggctgag cctaagatga atacagatga 180  
cacaaggttc gacaatggcg gtggacgaga ctatcgaggt ggtagagggtg atgggtccacc 240  
ccctggcaat tgctatgagt gtggccgtcc tggtcattgg gtccgtgact gcccgagtgc 300  
tgttgggtggc cgttctggca gattcccgtc caagttcagt gatggtggca ggggagaccg 360  
cttttctgga tcagataggt ttagtgatcg ttacatggat gatcgttatg atgggtgggtc 420  
gtatgggtac c 431

<210> 38422  
<211> 347  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-022-Q1-K1-G5  
<400> 38422

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gggaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaggaaa gaaaatataa aagaaaaaaaa gcattaagat tgctacagtg aaacaaaaat 180  
ggtttagttt agcaacacaa aaatacaata tacatggggg tggattaaca acgtattaaa 240  
gggggaaaac aattgagata catgaactta gattggatgg aagcacattt cattttgggtc 300  
aattggtgat aattggtaaa aggagcagaa ggatggcatt atgaaaa 347

<210> 38423  
<211> 428  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-022-Q1-K1-G6  
<400> 38423

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gcctgcgaag cttgctccgt tctttcgcct gcttgccctc actcctctat cgccttggcc 120  
tgcttattgc ccagacagtt tctgcttgac cccacgattc ttcactgatg attcacagaa 180

agcttggcga gcacgtacat aacttgccga tcggacagtt gatggacggc acgagcccaa 240  
 accgtacaag tccacaataa tttctccctc cggctccggc tccgcctaga ctcaactcgtc 300  
 catgtcgcgc gccggccgct ccctgccccct gcccggtggcg gcgctcctgc tcgcggtggt 360  
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 ccacccgc 428

<210> 38424  
 <211> 407  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-022-Q1-K1-G7  
 <400> 38424

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 ggaggcctca atacctgacg acaggctcaa gatacgcacc ttcaatggct cactcatctc 120  
 cttcaaggca ttggaatata acgcaacgat agatttctac tggtcaccac tactggtgga 180  
 gtctaacagc gacaacccca ttatccaccg ggtggagtac cggatcataa gggcagacag 240  
 aattgagaag catgccagtg tctggaggga tgccgacatc attgtcttca attcttacct 300  
 gtggtggagg aagcagaagg atgacatgag gatgaaggtc atgtatgggt cgttcgaaga 360  
 tgggtgatgca aagttagacg agatggaaaa tgggtccatgg ttctcgag 407

<210> 38425  
 <211> 387  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-022-Q1-K1-G9  
 <400> 38425

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 gtacaaggag gcgcgcaaag gagacatcgc caaccagggtg cttgtagcgc agatgttctt 180  
 ctccgggttat gggaccccca agaacgagta caagggaaaa caatggatgg atagagcatc 240  
 aagggttcagg tcttccgctt tgaaggttgg catgaaacgt ccaggatata atgcaagtga 300

ctcagactct gatgacgatg caaatgatga cgccaaccaa taacactcaa ttacaaattg 360  
agttattagt taggagattc acaagga 387

<210> 38426  
<211> 397  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-022-Q1-K1-H1  
  
<400> 38426

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aaggacgaca gtggctacgg cgacgagcgc cggcgcgagc tgcaggcgtt cgacgacacg 120  
aagctggggg tgaaaggcct ggtggactcc ggcgtcaagt ccatcccgtc catcttcac 180  
caccgcgcgg aagccctgag cgacataatt tctccggcgc cgctctgcc gccgtcgctc 240  
ccctccggcg ccgccatccc ggtggtggac ctctcggtga cgcggcgga ggacctagtc 300  
gagcaggtga ggcacgcggc cgggacgggtg ggcttcttct ggctggtgaa ccacggcgtg 360  
gcggaggagc tgatgggcgg catgctccgc ggggtgc 397

<210> 38427  
<211> 443  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-022-Q1-K1-H10  
  
<400> 38427

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cgggtgaacca gttccggagt atgactacct gccatacttc tactcccgat cattcgacct 180  
ggcgtggcaa ttctacggcg acaacgtggg cgaaaccatc ctgtttggcg acagtgacct 240  
cacctccagc aagcccaagt tcggctcgta ctggatcaag gacggcaagg tcttgggcgc 300  
cttctggag ggcgggtcac cggacgagaa caaggccatt gccagggtg cgaaaacca 360  
gccgtcggtc gctaacctcg aggagctcaa gaaggatggc ctccagttcg ccagcaagat 420  
ctgagacgct ccggttccat gta 443

<210> 38428  
 <211> 314  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-022-Q1-K1-H11  
  
 <400> 38428  
  
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 cttgttagaa aggatgcaga gcacgctgca aacccgatca aggtcataac tgtacgctga 120  
 accagttgcc caatatcact acctaccata cttctacttg caatcactag acctgccttg 180  
 gcaattccac gatgacaatg tagtcgaaac catcctgctt ggagacagtg accccaccta 240  
 catcatgccc aacttcgggt cgtactggat caacgactgc caggtcttgt gcgccttcct 300  
 ggaggacggt ccac 314

<210> 38429  
 <211> 445  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-022-Q1-K1-H12  
  
 <400> 38429  
  
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 cccctccct cccctccct tcccctcgag gctccaggac cgtctcctcg cctgctcatc 180  
 cgccgctgct ccccttctct gggctcggag aaccggagag aagcgcgcgc ggccatggcg 240  
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 tgtatgctca tctgctacac cagcaacaag tccccactg actacatacc tacggtgttc 360  
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 accgctgggc angaagatta caacc 445

<210> 38430  
 <211> 402  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-F9

<400> 38430

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tcggcggcct cgcctgggcc acggacgacc actccctcca caacgccttc agcacctacg 180  
gcgaggctct cgagtccaag atcatcctcg atcgggagac gcagaggctc cgcggcttcg 240  
gcttcgtcac cttctccacg gaggaggcga tgcggaacgc catcgagggc atgaacggca 300  
aggagctgga cggccgcaac atcaccgtca acgaggccca gtcccgcggc ggccgtggag 360  
gcggcggccg cggcgggtac ggtggtggcc cgtgaggcgg cg 402

<210> 38431

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-E6

<400> 38431

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gtcgaggctg ctgagccgga gatagccgcc gagaccaagg aggcggcggc tgtggaggct 180  
aacgaggagg agggggaggc atcgctgctg gttgctgcca ctctgagggt cgcagcgacc 240  
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gagtgagtcc agcgccggac ggcgccgat ctagctcgct gcgtcagcct gtcacctggc 360  
gtgcgccgct ctggtgccac tgccacggca acagcacggc atggcgccgg cataggtcgc 420  
taggaaaa 428

<210> 38432

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-E7

<400> 38432

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 attgaattca cttgaagtaa ccattcttca aattcacatt ttgagagact gtttgctcca 180  
 acagatgaaa atagtgtcca tgactgggtcc acacgctatg cgataatcaa ggggatctgt 240  
 gagggtttga aataccttca cgaggaattg aatcctccta tttatcattt ggatttaaaa 300  
 ccagctaata ttttgttgga tgacaatatg atgccaaagc ttgcagattt tggcttgtca 360  
 aagatttttg acaggaacga acacgaatca cacaaagttg tgt 403

<210> 38433

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-E8

<400> 38433

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 acctttatcg aggttgtcag tctgcaagtt gaatcatggc ggagcacttg gcttcgatct 180  
 ttggtaccga gaaggacagg gtcaactgcc ctttttactt caagattggg gcttgtcgctc 240  
 atgggggatcg ctgttctcgt ctgcacaaca ggccaactat atcgccaact cttgtgcttg 300  
 ctaacatgta tcagcgccct gatatgataa ctctggagt tgatgctcaa ggccaaccta 360  
 ttgatcctga gaagatgcaa gagcattttg aggacttcta tgaggacatc tatgaggagt 420  
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<210> 38434

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-F1

<400> 38434

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ctgttgcaact gatggttatg caaacaatgc ttggttcacg gaacaagagt gctggtggag 180  
gaaagcacat ggggttcagag cttgtgcaga gggcagcaat caatgacatc gctgagagtg 240  
taatgggatt caatacgaat tacaaggaca ctggtctttt tgggtgtctat gctggttgcta 300  
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<210> 38435

<211> 447

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-022-Q1-K1-F10

<400> 38435

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acagcctcgc aggagcgcct cgttcgcta cgccaccgc cactgtgctg tcggaaggca 180  
gctcggacta ctcgcgccgn ctcggttctt ccgcgctcgc cgccccttcg ncggcgtgat 240  
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tcatgacgag tacggatatg gaaaaattga gcagcatgag cataatcgaa gtgagtgatg 360  
tcactagtcc gaagctagga ttaccaaatt gttccctgca atgtgagact tgtggatcac 420  
aacgtggacg cgactgtgat gggcatt 447

<210> 38436

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-F11

<400> 38436

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cgggataagt acagacgcag atgaagagct tccggtatct gaagatgatc cagaagtgct 180  
actgaggagg cttcaagagc ttgctgatga gaattattcg actgggaaca actgttttgt 240

tttccctgaa gtagtgaaag ctgattogat gattgatctt tacttaaacc gcagcatgtc 300  
ggccttagct agtgagtcg acgtttttgt aaaaggagca ttcaatgggt ggagatggaa 360  
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<210> 38437  
<211> 438  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-022-Q1-K1-F12  
<400> 38437

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aggtatatac tagagcgaag agcgaacaac aatctaagat tgcagcaaga aaggtccagc 180  
aaggatggag tcaggacttt tatccatgcg agaaggaacc agattatgta catgtatatg 240  
tgtggataga actaaccgcc gatattatcc taaatctaag cacggtcacc cacaaaaaat 300  
gtgtaatttg cttcttccca gacatacgaa atgtgttatg cggactatgt tggctattgg 360  
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aatatgcggt cttgacat 438

<210> 38438  
<211> 439  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-022-Q1-K1-F2  
<400> 38438

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aagcgtaccc ggagaaacct caagaggcca agaagtgcc tcagatctcg cgaaagagcc 180  
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cggacgacat cgacaagttc cggaggagca gatgcttggc ctggtgatgc ctgtgttctg 300  
cacaaattgt cgaacagtac ctgagcgagg atactatagc atggaagtca agcaactgta 360

ttacatcatg ctgcgaggaa cggcatcagc ggttcctgca gcggagagga aaggactgtt 420  
aaataagaaa aaaagaatc 439

<210> 38439  
<211> 388  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-F3

<400> 38439

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ctccggcatg gagcatgtca atgtggggag tgggagcgag gtgaccatca aggagctcgc 180  
cgaactagtc aaggaggtgg tcggcttcca ggggaacctg gtgtgggact ccagcaagcc 240  
ggacggcaca cccaggaagc tcatggatag ctccaagata caggggatgg ggtggaagcc 300  
caagatcgcc ctcaaggaag gcctcgtgga aacctacaaa tggtagctcg agaatgtcat 360  
ctcgaacaag aagtagagcc gtgacatg 388

<210> 38440  
<211> 400  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-F4

<400> 38440

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tgaggacatc cagcctcttg tctgcgacaa tggcactgga atggtcaagg ctggttttgc 180  
tggcgatgat gcaccaaggg cggttttccc tagcattgtt ggccgtcctc gccacactgg 240  
tgtcatggta gggatgggac agaaggacgc atatgttggc gatgaggcac agtccaagag 300  
aggtattctt acgctcaagt acccgattga gcacggtatt gtgagcaact gggatgacat 360  
ggagaaaatc tggcatcata ctttctacaa cgagcttcgt 400

<210> 38441  
 <211> 435  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-022-Q1-K1-F5

<400> 38441  
  
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 ggcagaggat cctgcagcaa aaagatttat catttccttt gctgctgacc gtgttgtcag 180  
 cctggatggg attgattttg tcagggtgtga agttgttga cagagtttca tgctccatca 240  
 gatccggaag atgattgggtc ttgctgtagc tgtgatgagg aactgtgcac ctgaatcaat 300  
 ttatgatgtc gcctttcgca aggatgtcaa tcttaatgtg cctactgcac ctgagggtcgg 360  
 actgtaccta gatgaatgta tgttcacatc atacaacang aaatggaagg attcacatga 420  
 ggcagttttc atgga 435

<210> 38442  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-022-Q1-K1-F6

<400> 38442  
  
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 tgaaatggta gaaacctcca acacaaatga tgagaagcat agagaaacac tagatctaaa 120  
 tagtgagcag agagcagaat cacccaaagc agatgtcaag atgagagcag agacacctga 180  
 gaaagacaac gacctgccag ggggtccaact agtcactgac gatttgaatg ggcaccacga 240  
 acagatgcaa gaaataaaat tggattgata agcatthaagc acaatgctcc cagcccaaatt 300  
 atcttcgaca ccacgtaagt aatatcagag tatntatgat ctgatcacac ggtgccagggt 360  
 tgtgacagca ctgagggtgg ctaagtttga aatgatactg gtccccctt ctttcccttt 420  
 cct 423

<210> 38443  
 <211> 289  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-022-Q1-K1-F7  
  
 <400> 38443  
  
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 tgtcacatgt cgtgtggtgt gggggcgctc tgatccggat ggtgcagcgc cgcgggatcg 120  
 cccacggcca tgattgatcg cgaacgagca gaggaaatgc aagttaataa tgaggcacca 180  
 ctagggtgcc tcaagccaaa tatttctcag tataactctc cagagcagat aggtggtgtt 240  
 gaagggtttc ctgagaataa tgaaaaaagg aatgatatnt gtgctgcng 289

<210> 38444  
 <211> 291  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-022-Q1-K1-F8  
  
 <400> 38444  
  
 cccggcccga cccacgcgtc cggtcggccc ttcgctccaa gagcatttta gttctcgggg 60  
 taatacacgt ccgaggggtcg ggtgtacttt gcaagcggcg aggtgaaccc accgatctt 120  
 taaacctagc tgatgcccga ctcgttattc aacttagatg cgacaattgc actggaaagg 180  
 gcatcgctaa ttaagctaaa catgtttgac caaagctca tttggacacc atcgcaaagt 240  
 gtgagcacca ctcaaaagta tgggataaaa atacactgaa agacacatgt g 291

<210> 38445  
 <211> 435  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-022-Q1-K1-E4  
  
 <400> 38445  
  
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 gccgcgctca tcttcagcct atccgcgctg gacggcaaca aggcgaggat cggcgagctc 120

ggcgcgatga ggccgctggg ggagctcctc gagcacggca gcacggcagc gaggaaagac 180  
gcggcctcgg ccatcttcaa cctgtgcacg ctgcacgaga acaagtcgcg ggccaccaag 240  
agcgggggccg tcgacgtgac gctgagggcc gtcgcctgcg ccgggggacgg ctctggctcc 300  
ggctcgctgg tggacgagtc tctggccgta ctgcgctgc tgcggggcga ccacgaggcg 360  
gtggaagagg tcggcgagac gggctgcgtg gcctccatgc tccacgtcgt gaaggacgac 420  
ccgtgcaagc gcaac 435

<210> 38446  
<211> 428  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-022-Q1-K1-D10  
<400> 38446

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gcttgatctt gcacagcagc agcatgggtg atgggtgccca gttgcagcaa tggatgctat 120  
tgctaaaatt gtcgaagttg caccaatcag ggtttatgaa gttgcaacct ttataccat 180  
gtttaacagg actaaggttg gtaaatacca cttctctggtg tgtggaacta caccttgat 240  
gattcgtggg tcacgtgaaa tcgaagagac gttgttgagg caccttgagg ttaaacgaaa 300  
tgagggtgacc agtgatgggt tattttctgt tggagaaatg gagtgcattg gttgctgtgt 360  
gaatgctcct atgattgctg tggctgacta ctcgaaaggc tcagagggtt acacatataa 420  
ctactatg 428

<210> 38447  
<211> 401  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-022-Q1-K1-D11  
<400> 38447

ggggaagaga acgcgccgca ccgggcagct aacgaaacca agccaagcca tggcagccaa 60  
ccccaaccac tgctccgcc gcctcgctc agctctctcc cacggtcccc ggctccgac 120  
tctctcccta tctctctct tccccgcct cgcgctctcc agctccggcc cctccacggg 180

cccgccgccg ccgccgccgg atgccgtaag gaagggggag ggagaggaag cggcggaagc 240  
 tagggccgcc gaagccgacg ccgaagcggg gaaggaggaa gagcatgagg ccgacggcgg 300  
 tgcgcacgtg aacaaggcca cggcgaggt cggcgccccg cgggggcccc agcccacgag 360  
 gtacggcgac tgggagcgcg ccggccgctg ctccgatttc t 401

<210> 38448  
 <211> 380  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-D2

<400> 38448

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 gccaaagttc accgctcgag ttgctgttat tgaggcgctg aaggaaaagg ggttgataa 120  
 ggacacaaag aagaatgaaa tgagcttggg tgtttgttca agaactaatg atgtagtga 180  
 acctatgata aaaccacagt ggtttgttaa ttgcaaccac atggccaagg cgggccttga 240  
 cgctgtaagg tcgaaaaaga ttgaaattat tccccagcag tatgagcaag actggtacag 300  
 atggcttgaa aatatacgtg attggtgtgt ctcaaggcaa ctttggtggg gacatcgtgt 360  
 acctgcatgg tatgtgacac 380

<210> 38449  
 <211> 435  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-022-Q1-K1-D3

<400> 38449

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 ggtcttgccc tcttgctgcc gctgcccccc aatcggcgcc gctttgcttc ctggtttccg 120  
 caaggttcca cacatcagca tccgagactt gggatggaag gcacggcgtc ttcttgagac 180  
 cgcgactagg gtgggaagga aagttacttg ctgccgtctt cgcggtcttt gcgcangcag 240  
 ggtagagccg gagatcagag atcttggtgc agacaagtcc ttcggcgtgc agggtaaata 300  
 tcgcctactt cttcttcaga tatatatgct tgtcggcgaa gtcctttcgc gttccgatca 360

tcagcttttc ttccaatttg tagttctctc taagcggaat ctttgngttc ttgaaagaga 420  
gagagagaga gagag 435

<210> 38450  
<211> 379  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-D4

<400> 38450

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ttcaccagtt cgccgtcgaa gggagcaaga gtggtccgac agtgctggat accatgtcgg 120  
cgcaggaacc attcgtccac atccccgaag aaacgatccg agagggcgctc aaagttgtcc 180  
ttgacgtgag aaaccagccg gtcctcatcc actgcaagag aggcaagcac cggactggct 240  
gcgtcgtcgg atgcctgagg aagctgcaga agtgggtgct gtcctccgtg ttcgacgagt 300  
acctgcactt cgcggcgggc aaggcgagga ccaccgacca gaggttcatt gagctgttcg 360  
acgcgtcgag cctgatgca 379

<210> 38451  
<211> 425  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-D5

<400> 38451

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gtcattttca tgtgcacact atcaagctat atcagtcatt cagtactggg gtttaagcag 120  
caatgcagca tctgaatca tgtgttaaata gataacaaca ataatgattt aaaaaataag 180  
accttgtcgt cccaccagc ccacagacct ggggttatcaa tgcttaagat tccaattgat 240  
tctactgaaa ataccttttc tattgatagg tatgggcttc tacgaggaac cctcagggct 300  
ccagccctgg gctggatgat gtacaatgtt ctgggtgagca atgaaaagtc gatccagtct 360  
cagtacaagt cccacgtcta cgccaaccct gacaacgtga cgccagatat catcgagagc 420  
cgata 425



<210> 38452  
 <211> 392  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-022-Q1-K1-D6  
  
 <400> 38452

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cgtcgacata gctgcttgcc gccgacaccc gcagccgcaa tggccgtcgc ccacgcgccg   120
ccgcgcgggg gcgtgctccc cctcctgctc gtcgccgcgc tcgtggcggc gttgccggcc   180
acctgcgccg cggccaggag caagaagtcg tacacggcca tcttcagctt cggggactcg   240
ctctccgacg ccggcaacct catcgtcaac ggcacgcca aggcgctcac caccgcgcgc   300
cctccctacg ggatgacctt cttccgcaag cccaccggcc gctgctccaa cggccgnctc   360
gtcgtcgact tcttgccga gcatttcggg ct                                     392
  
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<210> 38453  
 <211> 329  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-022-Q1-K1-D7  
  
 <400> 38453

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gtgcaaacag aagcttgagg caaatgccat ccttgcggtt tcaattgctg tgtgcaaagc   120
tggagctatg gtgaagaaga ttcctcttta ccagcacatc gcaaattctg ctgggaacaa   180
aactctgggt ctcctgtac ctgcctttaa tgtgattaat ggagggtcac atgctggaaa   240
caagcttgcc atgcaggagt tcatgatcct nccaactggg gcctnctcgt tcaaagaagc   300
catgaaaatg ggaagtgagg tgtaccaca                                     329
  
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<210> 38454  
 <211> 412  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-D8

<400> 38454

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gtcgaagtac aaagaaggcc ttactaggga ggagggaata cagattgtgt gcgaagcaat 120  
ctgtgctggt attttcaatg acttgggtag tgggagcaac gtggacgtct gcgtgataac 180  
caaggggaag acagaatact tgagaaacca ccagttgccg aatccaaga cttatgctag 240  
ttcaaaggga tacagtttca ccaaggggca gactgaagta ctgtcttcaa aggtcacact 300  
tctaaagcag aaggttgagg tcgccgaagg tggatgatgt atggaggagt gatcttgcac 360  
cctgcattca tacaagcata ttctgaatct gtgtaacttt gcttagtgga tc 412

<210> 38455

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-D9

<400> 38455

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agagagggtta gctatagctt gcacatctat ttaactaact aactaactgg ctagctagct 120  
cgatccgcag agcaaagcga aagcagcaag aagcaaagca atggagaacc ctgcgagtgt 180  
gctagttcta ccagcgcagt tcaccaaact caccttcgga aacctgtaca tccgccgggc 240  
cgggccgggc agcagggaga taaccgagga gggcaagtgc gacctggaca ggagatacgt 300  
gagtaacttc cccgtctacy acggccgcgg ccccgacgcc agccttgtgg cccgcgtgca 360  
ggggatcacc agcgaaatcg ggaacgcgca ccaactgttc cgtcgtgtgt tcgacaccga 420  
caggct 426

<210> 38456

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-E1

<400> 38456

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 gacatacggg gtcataaaac accgtttggg cgatctatct tatcgccctag tatctcaaaa 120  
 gtctgaggat cctgccgaag gtgaagaagc tttggctcggc aaatttaaga aactgtatga 180  
 tgacctcacc actggtttcc gcaatctcga agacgaggca cgggtgaacta gtgtagattc 240  
 tgtgtaaaca aggactgcca aatgttttat aagatacata aattgtagat tgagatcatc 300  
 tgtaagaatt attcccaccg ttgcaccatc tcttcggcac cactgtttta gtcacgcggg 360  
 cctgaatggc acccctgtta tttcatgtat 390

<210> 38457  
 <211> 308  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-022-Q1-K1-E10  
 <400> 38457

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 gatcgcgaaac caggccatac tagaggctctt tgccggctgt cggcgctgc acatcatcta 120  
 cttgagaatc taacagggga tgcagtggcc ggctcttctg caggcgctcg cgctgcagcc 180  
 tggctgcca atgtcgttcc ggctcaccgc cgtcagacca ccgtagcccg acgagaccga 240  
 cgccttgtag ctagtgggct gtaaactggc ccagttggag cacaccatgc tcgtggactt 300  
 gcagtacc 308

<210> 38458  
 <211> 382  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-022-Q1-K1-E11  
 <400> 38458

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 gcactgcagc catggacgcc agcggagccg gtagcaaggc gaagaagggg gcggctgggc 120  
 gcaaggctgg cgccccagg aagaagtggg tgcgcgggtc cgtcaaggcc gggctgcagt 180

tccccgctcgg ccggatcggg cgctacctca agaaggggcg gtacgcgcag cgcgtgggca 240  
 ccggcgcccc cgtctatctc gcgcgcgtgc ttgagtacct cgccgccgag gtgctggagc 300  
 tggggccggaa cgcggcgaag gacaacanga agacgcgcac cgtcccgcca cacttgctcc 360  
 tggggcgatcg taacgacggt ga 382

<210> 38459  
 <211> 332  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-E2

<400> 38459

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 ctagcagtcg tagagtgcg atgaggggtc tctctgttgc ggtcgctctg gtcgtggtgg 180  
 tggccgcggc ctgcctcgcc gcgcgcggg gcgcggacgg tgcggtcgag agctggggcga 240  
 cgccgaggga cacggtggcg ctgatgctgg cgacgcgcgc gtcggtggcg gaggacaatg 300  
 ggtccagtgc gtccagctcc tgatggatgg cg 332

<210> 38460  
 <211> 390  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-D1

<400> 38460

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 ctgtcggcga cgccctcccc gacggccagc tcgggtgggt cgacgagaac gaccagctgc 180  
 agcaggtctc cgtccacgcg ctgcgcgcg gcaagaaggt catcctcttc ggcgtccccg 240  
 gcgccttcac cccgacctgc agcaaccagc atgtgccagg ctccatcaca caggctgagc 300  
 agctcaaagc caaggggtga gacgagatcc tgcttatcag cgttaacgac cccttcgtca 360  
 tgaaagcgtg ggcgaagacc taccgccaga 390

<210> 38461  
 <211> 386  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-022-Q1-K1-B6  
  
 <400> 38461

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agtatattgt agaagatctt gaaggagctg accatgtgcc agaccttgat cctagccatg  120
ttatagagtt gaagatatta ggactatatt aaacatagct gcatattaca tcagataaac  180
attgttgatg aatgggggaa agcataccgg aaacaaatcc caggttgatg ttgcaagaaa  240
tacgtacgtc attccacttc acctggagac agtgcaaaat gggcctttgt gtgactgtcg  300
cccataaatt cttgtgaagc aaaacacaat tgctcattcg aagaacacca tttgaaggat  360
ctttggtnc a atgtaggcct gatagc                                     386
  
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<210> 38462  
 <211> 360  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-022-Q1-K1-B7  
  
 <400> 38462

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aggtgtatat tgaagaagat cttgaacgag ctgaccatgt gccagacctt gatcctagcc  120
atgttatata gatgaagata ttacgactat attaaacata gctgcatatt acatcagata  180
aacattgatg atgaatggtg aacagcatac cggagacata tcccaagtcg ctgttgcaag  240
aaatacgtac gtcattccac ttaacctgca aacagtgcaa aatgccccta cgtgtgactg  300
tggcccataa attattgaaa agcataacac aattgctcat tcgacgaaca ccaattgaag  360
  
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<210> 38463  
 <211> 410  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-022-Q1-K1-B8

<400> 38463

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gaccctggcc attaccaga gtgtcatctt tgtcaacacc cgccgcaagg tggactggct 180  
cactgacaag atgaggagca gggaccacac cgtttctgcc actcatgggtg acatggacca 240  
gaacactaga gacatcatca tgaggaggtt ccggtctggc tcttccctgt tgctcatcac 300  
cactgacctg cttgctcgtg gtattgatgt tcagcaggtg tccctgggtca tcaactatga 360  
tcttcccacc cagccagaga actacctgca tcgtattggt cgtagtggtc 410

<210> 38464

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-B9

<400> 38464

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gagcgacgat ggtgagaagg acggtgctgg cggcgctgct ggtggccgcc gccctcgccg 180  
gcggcgcgcg ggcgcagctc aaggaggggt tctacgacta ctctgcccc caggcggaga 240  
agatcgtaaa ggactacgtg aaggcgcaca tcttccacgc gcccgacgtc gccttcaccc 300  
tgctccgcac ccacttcac gactgcttcg tcaggggctg cgacgcgtca gtgctgctta 360  
acgcgacggg cg 372

<210> 38465

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-C1

<400> 38465

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agatcgcgga ccgctcaac aagatgctcg ccgtgctgga caccaacatc ctctgggtga 120

accctgactg cggctctcaag acacgcaagt acacggaggt gaagcctgcc ctgaccaaca 180  
 tggctctccgc caccaagctc atccgcaccc agctcggcag cgcgaaatga gtcagatttg 240  
 gtagatccat gggtttgttg acacaaaagc cagcaggggtc atttgtttcg aataatttgg 300  
 gtccttactc ctgttccatg gcgttaggtt agcctcattg gtgttggtgg ggtacggcgt 360  
 tacgtgtccg tgttctaagt ttggagtgtg tgtttctctt ttt 403

<210> 38466  
 <211> 443  
 <212> DNA  
 <213> Zea mays

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 tccatccttg aagccaattc ttgatgagat agagaatggg ggtccatctg caatggtgaa 180  
 gtattggaat gaccctgagg ttcttcaaaa gattggccag gcaatgggtg ttaaccttcc 240  
 cggagattct agtgtgtcca ctgtgctctc tggacccgaa gagactgagg aggaaggagg 300  
 ggatgacgat gagtccattg ttcacacac tgcaagtgtt ggtgatgaag agggtttgaa 360  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-C11

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 caagggatgg caaccggtag tgaggcctcg aaggcagctg aggtgtggt tgactggcat 180

aaacaggaca gcaagaggat gctccatgcg gattaccgtg ttggggatct ggaccgtaca 240  
atcaagtact acacggaatg ctttgggatg aaactgctga ggaaaaggga tgttcctgat 300  
gagaagtaca ccaacgc 317

<210> 38468  
<211> 308  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-C12

<400> 38468

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ccaactgatt taaacaacta cagactctca gatggcacca gatgttacat ctgactgaaa 180  
tctacagcaa aaagcgttga agctaaaccc acacaagaca ctataatagc acttgctcct 240  
ccactaacac tcaacgctga ggagcttgaa gaaacatcca aggcacttag atacgtacct 300  
gaacatga 308

<210> 38469  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-C2

<400> 38469

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gtgaaagtgc aagtaagacg cctgatggca cacctagtag gtcgaggaag aaatttgtcg 180  
atgacggtac ttctagtaaa aggcagaata aagcgctcca gtatgatact gaggaggatg 240  
aatccatgaa gtctgacagt gagggaaaaca tagatgaaga ttcagatgaa gctgctgaca 300  
aacaggaagt tgactatgga tctgggaaag aaaaggcaag gaagaagtta 350

<210> 38470  
<211> 393  
<212> DNA



<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-C3

<400> 38470

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agaacagggt cactcgctct tgctctcggt ctgtctaaac ctttgtgctt acacctggca 180

gaacgcacat atccaatata catccatcaa ccatagcacc aggtccaaaa gaaaaatcca 240

agaaataata gtcgacttaa atcagacatg atcaatcaag accaagcaat atccttctat 300

gtatgtacta gaacaaaaag atgtgacatg cacacattgt gttggatgtg ttggtatcat 360

caatcaagga ccttcttgac ttcctgaaca aac 393

<210> 38471

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-C4

<400> 38471

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ctgcattcca aaggggacct gaaattcgtg ctagattcat gtacaattct tacattccaa 180

agaggcccaa atgccagcaa gctaggatca ctgggtctctc ttggacctgt gcttctctgg 240

gccatccttc ctgctccatc aaccatcatg ttgactttat gaagctgatc agatggggat 300

gcttgggaac catggagtgg gtttgctttg gcttctgggt cgggttttat taggtgatat 360

gggatctagc ctgtaatcga tggtttttta tttgggtcat tgtaaattta tat 413

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 acccatcaaa gcagcagatc atgaaaacaa ctccaaggag tcaatgatag aaaatttaga 120  
 ggagccaact gttcgagctg ctgacctaat tgggtcaatg gccaaaaaca tggataccca 180  
 acaggcagca agagctgcag aagatacccc taatttctct tccaaagtgc cagaagggaa 240  
 aggtaagaat gaccagcatg ataattatgt tttgccatca cttgagctga gtttgaagag 300  
 gtcgagatca tgtggagatg gtgccaacga tacagtcaat gacgatgaac agcggaatag 360  
 tgcattaaag cgatcgaatc 380

<210> 38473  
 <211> 440  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-C6

<400> 38473

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 gacaaccccg aagctatgga agaagacgag gtagacgaca tcgctgagat caaggctgct 180  
 cacttcgagg agtccatgaa gtacgccgt cgcagcgtga gtgacgccga catccgcaag 240  
 taccaggcct tcgccagac actccagcag tcccgcgggt ttggcagcga gttccggttc 300  
 cgcgaccaac cgacggcagc tgctgctgca gccgatccct tcgcatccgc tgcagcagca 360  
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 actttgcttt cgtatatgct 440

<210> 38474  
 <211> 361  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-022-Q1-K1-C7

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 gccgtctgta tctggaaatg aaacctatgt gaacattgaa tatgaagctt ctgagatggt 120

tgatctgcac aatgttgtca tatctatacc tctgcctgca gttcgggagg ctccaagtgt 180  
cagacagata gatggagagt ggaagttgga ctcaagaaac tctgtgttgg aatggtctat 240  
tctccttatt gatcagtcga atcgagtggt ttccatggaa tttgttggtc cccagctga 300  
tccgtcatca tttttcccca tctctgntgg attttctgca tcgagtactt tcagtgatct 360  
g 361

<210> 38475  
<211> 361  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-C8

<400> 38475

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cgatcatgggt ggcattgctg attattcagg gagtcttggt ttgcagatgc ctcttcggga 180  
agcttgccat gttgctgttc agagaaacca tcccagcaag cagaagcttt ggaaacatac 240  
aaaagcaaga cagcttggtt acggaagctt ggtacctgtg atacaaattg gatcatttgg 300  
ttctgatttg agtaaccgtg caccaacttt tgatatggac ctgtcagatt ttatggaatg 360  
a 361

<210> 38476  
<211> 441  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-C9

<400> 38476

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ggacactttc agtcacttgg aattacttaa gggactccat gggtagctac ctgtcccagc 180  
ctaactcctg cactgcccga tgggaggggtg aagatcatct gcgggaccc tttttccagc 240  
tggtatgcatt cagataccga acatctcggt tgctacatag tggtgctgct cggcttcaga 300

aacacagcaa gacgcttgga ggttttggtg cgtggaatag atgtttgaat catcttctta 360  
cgcttgca ga atcacacatt gagtctgtca tccttgcaaa gttcattgaa tcagtga aaa 420  
gcttgccctga cgaaaaatcg c 441

<210> 38477  
<211> 436  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-022-Q1-K1-B5  
<400> 38477

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gatttaagat gtatctccag tactacatca acgagaaggg ggacaaggctc tacaccacca 180  
agaaggagtc acctcttggg gtgccaacgc agtctgctca cccagctcgg ttctcacctg 240  
atgacaagta ctctcgccaa cgatacctgt tgaagaagag atttggactt ctgccaacgc 300  
agaatccagg accgaagtac tgaagcttca agtcaactgt ccaacctgcg atgttctttt 360  
tgtgtcaatg cttngtggtt ggaatgtact atcttcgttc tcgaatattt gtgggccgct 420  
agttcaattt tgaact 436

<210> 38478  
<211> 331  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-021-Q1-K1-H8  
<400> 38478

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gccgcggctc cgaagccgaa gcctgccgcc gccaaagccga aggcggccac cgctggtgcc 180  
gtccacccgc cttacttcga gatgatcaag gacgctatca cggcgtcaa ggagaggacc 240  
ggctccagct cgcaagcgat cgccaagtat gtgggggaca agcacggcgc gtctctgccg 300

gccaaacttca agaggatgct ttccatccag c

331

<210> 38479

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-H9

<400> 38479

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tcggtttcgt gggtgagcgg atcgagatgg cggcgctcgga tgttgagtac cgctgcttcg 120

tcggcggcct cgcttggggc acggacgacc actccctcca caacgccttc agcacctacg 180

gcgaggtcct cgagtccaag atcatcctcg atcgggagac gcagaggtcc cgcggcttcg 240

gcttcgtcac cttctccacg gaggaggcga tgcggaacgc catcgagggc atgaacggca 300

aggagctgga cggccgcaac atcacctca acgaggccca gtcccgcggc ggccgtggag 360

gcggcggcgg cggcgggtac ggtggtggcc gtggaggcgg cggctaccgc ggtggcgggc 420

gccgtgat 428

<210> 38480

<211> 334

<212> DNA

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<223> Clone ID: LIB3069-022-Q1-K1-A1

<400> 38480

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aacagcccgc cattgtgcaa ggaatctgat gatgcagatg ctgcttgga tgtaccgttg 120

gaagcatgca tgcacaaact gcctggtggc tcaaaagtcc gaggatcaaa atggccagag 180

ttatggccgc aaaggcttga gaagaccctt ttctggattg atggttccaa ggttggtgtc 240

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agtaaatacg atgtgaatgg catgggaatt gact 334

<210> 38481

<211> 368

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-022-Q1-K1-A10

<400> 38481

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gccatgccta taactatgct cctcagtggc tggccgcggc catgctccgg aacggcgtgg  180
aggcatggca tctcggcgct gtctgcctca tcggaaactg cttcctgatg ggcgcttacc  240
tcgtcatcca ggccccgggt ctgatcaaat accccgcgag cttatccctg accgnctact  300
cctactcctt cgcaaccttg ttcagtgtgg tcaccggcgc gttegccacc agtgggcttc  360
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<210> 38482

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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gctccccgtg ctgctccagt gaggaacccg ccacagccag cacgccaggc tcctcctcca  180
gtcctgttgc gagatggtgg tggctccatg tttggaggaa tcgggtccac cattgctcaa  240
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ccccggacca ttcagcatga gactgttgcc tcagaagctg ctgctgctgc cctgcccct  360
ccagtgatga atgctgacgc tngcagcatn cattctaagg ctttccaaga ttgtctcaac  420
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<210> 38483

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-A12

<400> 38483

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gcactaccag cgtctgccct tcgcaaata gcgatttccc gcaccggaac agttcggggc 180  
ttcacctgac gctgcaccac ccgcagagcc cctgctcgcc ggcgcgcgtc ccgtccgacc 240  
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<210> 38484

<211> 384

<212> DNA

<213> Zea mays

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<400> 38484

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gagcccaccc tgctgcctc gccgcgatcc ctccgcgctg ctcgaggctc ctgtcctgaa 180  
ccaatcgaga acgccgactt ccggggacgc gatcatctaa agccgcctcc ttcccgttga 240  
atccgccgag attcggcgctg aggcgaggtt accgacttcc cttgcgcgta gggccggcag 300  
gagcgcgccg tggccatggc gtgccggggc ttctttgagt gcgtcctcaa gtcctcaac 360  
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<211> 444

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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gctgttcgag acggggggcg tgcagctcga gtcatacgg gatgccgaga ttgagccgtg 180

tgcctacgtg aggtgggagc aagggaggcc gagaggatcc gcttcatgag ttggatgcac 240  
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 atcgatcaag tggattagca ctcttccttg tctgctgat ctgtagaaca nggataagtc 360  
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<210> 38486  
 <211> 363  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-A4

<400> 38486

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 taacatctgc ctttctttct catcttatga aaggagattt gccacgagga actacatgac 240  
 ccagagcctt tggggccctt caatgtctgt tagcgggtggc atcaatgttc cagtgatgcc 300  
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 <211> 357  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 actctattaa cccctcttcc aatacaaaag gcgtgcacct ccagctcata ctggatgccc 180  
 agatcgagcc ctgtgcctac gttaggtggg aacaaaggag gccacagga tccgctttat 240



gaaatggatg cacacgatag accgtggaga tcccaccttc tcaatgcggg agatccacaa 300  
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<210> 38488  
<211> 369  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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attgagatc 369

<210> 38489  
<211> 304  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-B10

<400> 38489

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gacacgaccg tcaaggacac catcgaaggc tagaaagaga ggggggccgt tggtttgaga 240  
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gtat 304

<210> 38490  
<211> 355

<212> DNA  
 <213> Zea mays  
  
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 ccgctgggat atatatgtga caactctcac gctaatagtga cgaatgctgc tgccaagaat 240  
 aaatgatcta tctggctggg gacaaatgct gctgacaagg ggcgatcgtc taacaggctc 300  
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<210> 38491  
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 <213> Zea mays  
  
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<210> 38492  
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 <212> DNA  
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 <223> Clone ID: LIB3069-022-Q1-K1-B4  
  
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 tcagatagtc agttattggg tcgatcactg ttttgtcttg gactcctcct tcggtatggg 240  
 tatcaattga tgcaaacatc tgaaaatcag cttgattttc ccaagattat caacttgctc 300  
 cagagaaaaat atcttctcag ggatgatttt agcttgaagg ttcgagcttt gcagactttg 360  
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<210> 38493

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-H7

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 cggcgtgctg cagcgggggt cgctcgctca acagccgcgc gtcgtcggcg gcggaccggc 300  
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<210> 38494

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-G4

<400> 38494

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 ttccaataat ccaaggtaac cgaaagcagc agcggaggtc gcaagaacac ttccctcctc 180  
 tccggatcaa tcatcgatca gccaaagcccc tacaaaaaaa ccatcgccac atgttggtta 240  
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tccagcttac agcgacgtcc aggtccaggt ctgagctcga ggcacaggac tccctctata 360  
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 ggcgcttct tctcg 435

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 <211> 419  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-G5

<400> 38495

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 ttgtgagaga aagcttccag ctctactctg atatctgcga ggtgctggcg gtgctgctgg 180  
 acagattctt tgacatggag tatgcggagt gcgtgaaggc ttttgaggca tatgctagtg 240  
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 caaggtcatc tgagtaccca gaggtgcagc gtgtcactga taagttgctg gagacgctag 360  
 aaaagttcat gatggaccgg gctttccctt caaatggtgg caacgaggtg acttcggca 419

<210> 38496  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-G6

<400> 38496

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 ttgatgtcag ctattacttt atattgtatc ttctctcttc aggatgtggc ttatgcagag 180  
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 tatccgttcc ttgccaaaac ggtagaccac atcacattag tccgtgcagt ggcgttattg 360  
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456

<210> 38497

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-G7

<400> 38497

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ttcatgacca accgcctcct ggcccgcaag caattcgtgc ttgaggtgat ccaccccggc 180  
cgcgccaacg tctccaaggc ggagttgaag gagaggcttg ccaaggcgta cgaggtgaag 240  
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ggtttcggcc tcatctacga caacctcgag gctgccaaaga agttcgagcc gaaataccgc 360  
ctcatcagga atggtcttgc tactaagggt gagaagtccc gcaagcaaata gaaggagcgg 420  
aagaacaggg ccaaga 436

<210> 38498

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-H1

<400> 38498

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cataagctag gtggccagtt ccacctgagc tccagcttct ctgaaggtgt acgggcccgt 180  
aacatctgcc tttctttctc atcttatgaa aggagatttg ccacgaggaa ctacatgacc 240  
cagagccttt ggggcccttc aatgtctgtt agcgggtggca tcaatgttcc agtgatgcgg 300  
actccgcttt ttgccaatgc tccagccgag aaagggtggca aaaacttcat gattgatttc 360  
atgatgggcg gtgtttcagc tgctgtttcg aagactgcag ctgctcccat tgaacgagtg 420  
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<210> 38499  
 <211> 458  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 38499

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tggggactct ggtgcggcag caggggtcaa ggactacgta cacgtgcgca tncagcagcg 360
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gacctcaaaa gatctcaaga aagagttctg ctgcaatg 458
  
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<210> 38500  
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cagcaccatg gtccgctcgc acgacctcac cggcacgacc gcggctgcca acaacatgat 180
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ttttgtgaac tcatggggcg atgggggtgct agttatggtc tctggtctag tgcagaccaa 300
ggagtacagc caccaaagga aatztatcca gatgttcttc cttgcccctc aagagaaggg 360
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 <223> unsure at all n locations  
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 gcttactcca cgctccac caggcgccgn cgtcgtgcc gtcgtcacct tcgactcagc 240  
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 gcccgtaaca tctgcctttc tttctcatct tatgaaagga gatttgccac gaggaactac 240  
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 ttcaaagga aacagcaaac acatacatgt ctggcatggg aatcatcacc accattacag 240  
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 <213> Zea mays  
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 <400> 38504

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 caccacattt ttcttcactt cttgattcag caatttttcc agcattagca ttgaatgaga 180  
 aggatataga agaatgggag gaggatactg atgagtatat gcaaaagaat cttccttctg 240  
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<210> 38505  
 <211> 448  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-021-Q1-K1-H5  
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cagatagtgc tattctcgct ctgaactgca gtggcattgt tcttggaaacg cttcctgtta 180  
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 ttcggctcat ctgaagccgt cgtccagggc agcaaatttc tgggcaacaa agccctagtc 300  
 gtgtggcctt agagactgcc gcatcgcgga taagtaattg tcgttgagca gagttctccg 360  
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<210> 38506

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-H6

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 ccgactaccc cggcgggcct gatcgcggtc gcggtggcac acgcgttcgc gctgttcagt 300  
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<210> 38507

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-G3

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catcagccca tcggagacat gggtagctca agctccgttg agatcaaggt cgagcatgtc 360  
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<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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gtcgaccgct gccaggagcc cgccacgcta gcagcaaccg aggccaggcc cgccgtcgac 240  
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ggcgccgnca tggcgggccc caagaacggg acccccagag cgaagaagaa gtacgcgggc 360  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-F12

<400> 38509

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<211> 431  
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 <213> Zea mays  
  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-021-Q1-K1-F3  
  
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 tgtagataat tatgcaattc ggtatactgc gtaaaaatct gctacaggct gcatgcacac 180  
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<210> 38512  
 <211> 425  
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<223> Clone ID: LIB3069-021-Q1-K1-F4

<400> 38512

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<210> 38513

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-F5

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<211> 451

<212> DNA

<213> Zea mays

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<223> Clone ID: LIB3069-021-Q1-K1-F7

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 <212> DNA  
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<223> unsure at all n locations  
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ctggttacat ctctccttgg acaggacgat tttactocct gctagatcct acctatgcan 360  
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<210> 38517  
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<213> Zea mays  
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<223> Clone ID: LIB3069-021-Q1-K1-G1  
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<223> unsure at all n locations  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-G11

<400> 38520

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agatcgacca agaatgggat gaccaggaag aaggcaacga agccgtccag cagtgggagg 240  
atgattggga tgacgatgac gtgaacgatg atttctcgct gcagcttaag gaagagctgg 300  
acggaagcaa cggccagaag agctgaagtt ttatttctct actctatata aatgattttt 360  
atatggcagc tacttttggga accgttgatg tgctctggat atgaaagctt ttggac 416

<210> 38521  
<211> 465  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-021-Q1-K1-G12

<400> 38521

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attcggagga cggcgagggg gaggaggaag aggcagaggc cgcggcggcg gaggggtcga 180  
gcaaggagac gccgatgctg ccaaggatgc cgggtgcgctg gctgctcgcc gagggcgacg 240  
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cctctgatgg tgtgaaggcg tgggacatat taaaggaaaa atctttcaac atagaccttg 360  
gtttaactga agttgaactg cctttgatgt ctgggttcct cttggtatcc acgatcatgg 420  
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<210> 38522  
<211> 459  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-G2

<400> 38522

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cccactcccc cggtctcgcc gcattggcag ctggggagcg gatgcggcgg tgggtgcgtga 180  
gggcgttata gcgtccctc tcgggtgctg ggggcccggg tgctccatta gcctctccat 240  
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ggtgttcctt agataccgaa tacgagatcc ctacaagctt cttggtgttg atcgtgatgc 360  
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<210> 38523  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-021-Q1-K1-F10  
  
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 cggtttcgac agaaattaga tgtttgcagc agacaagttg ggcttaaata attgcagggc 180  
 gtaatcctag gttctttcta gtagctcaca gtaccgacta ccgagttcaa tcattggcat 240  
 gcagctgctg cagcagcaag tccaacatct gctaccaacc tgtacctgaa agagagccag 300  
 gctctgggcg gcacgagtgg ttcggactcc gacagcgatt cgctgctgga catcgaaggc 360  
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 aaccgtgagt ctgctcgac 439

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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-021-Q1-K1-D7  
  
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 ggccctcacg gatttgaaaa ggtgctggac ttattggaag atgcttgca gtcgctgctt 180  
 gatagtatcg tcgaaacaa tgcaagcatt tctgggtgac atcgatgtaa atctccacat 240  
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 tggttttctaa tgcaacattg atcatgtcgt cattaccag gtcttggtct ggtttgtata 360  
 taccaccatc cttatactg gatatgtgat aagtgacaaa aaaactgctc atcatcactt 420  
 ttttccactt aagataatca gaaacaatca g 451

<210> 38525  
 <211> 293

<212> DNA  
 <213> Zea mays  
  
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 ccaacagtcc cattttttgt tctgttctgt tctgtagtac atccgctaaa ctgtaaatcc 180  
 tgggtttcat gtgttcgtct gtctttttat tcaataattg cttccttgaa ggccgtttat 240  
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<210> 38526  
 <211> 411  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-021-Q1-K1-E1  
  
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 gcagcgcagg tttctgtctt ctggcggtaa ggtcctcagc gaggaggaga aggccgccga 180  
 gaacgtgtac atcaagaaag tggaacaaga gaagctggag aagctcgcac gcaagggccc 240  
 cagctcagga gagcaaccct cgtcaaccac aggctctgca gcaagtgatg tgaaggccga 300  
 tgctgggcca acggagtcag catctgcaag tgtgtcgacg gacaagaaca ggaactatgc 360  
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<210> 38527  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-021-Q1-K1-E10  
  
 <400> 38527  
  
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ggctggccat ctggcacgcc atcgagcagt gggtagcgga gtacctcgcc gtctactacc 180  
ccaacgacgg cgtgctgcgg gcggacgtgg agctgcaggg gtgggtggaag gaggcgcgcg 240  
aggtcgggca cgccgacctc aaggacgcgc cctgggtggcc caagatgcag acggtggccg 300  
agctggtcaa ggcctgcacc accatcatct ggatcgcgtc agcgctccac gcggccgtca 360  
acttcgggca gtacccttac gccgggtacc ttccgaacct gccgtccgtc agccggaagc 420  
cgatgccggc gccgggcagc gacgagtact ccgagctgga gcgc 464

<210> 38528

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-E11

<400> 38528

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acgccaaggc cgggattgcc ctgaacgacc acttcatcaa gtcgtctctc tggtagaca 180  
acgagtgggg ctacagcaac cgcgtcgctc acctgatccg ccacatgttc aagaccagc 240  
aggctagtag agagatagat ttctgcctcc ctatcgctggg tcgtcccaa tggcctttgg 300  
tcgcagacca tgtttctgct ttgtctatgc tgagaataaa tgtgaacggt gccctggac 360  
gctggatcca tgctgggttt ggacacgctg tctttatgtg ttaacttat ctgctgccgt 420  
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<210> 38529

<211> 457

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-021-Q1-K1-E12

<400> 38529

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agggcaacaa tgggtggacct actcagaccc agaggatgag gatgatgatg acacgtacca 180  
 tgtagagttt caaagaatgc cacagattaa acctacagcg ttgaggtttt atggtagttt 240  
 caacgttgta gtgtctggta tcactattgt caacagctca cagtgccatc ttaagttcga 300  
 caactgtcaa ggagtgatgg tccatgatgt gaccatatcc tncctgaga acagtctcaa 360  
 cactgacgga atacacctgc agaactccaa agatgtcagc attcatcata caaccctggc 420  
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<210> 38530

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-E3

<400> 38530

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 accgagagga gatcaatgtt cataatctgat gaatcgagaa agcttactgc ctaccatgaa 180  
 agtggacatg ctattgttgc actcaacacc cagggtgctc accccatata caaggcaact 240  
 atccttcctc gtggatctgc ccttggaatg gtcacacaac ttccctcaca ggatgagacc 300  
 tctattagca agaaacaact tcttgcacgt cttgatgt 338

<210> 38531

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-E4

<400> 38531

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 ttaataatgg tgatgctgat ggaactgatt ttgctcccg tggacggcct gattggttac 180  
 tttgccctgt tgactgtttg agaacgtacc gcccaggttt acttatactt actgcttttt 240  
 gacggtactg tacatacagt tcgacaattt atttattggc agttcaattc 290

<210> 38532  
<211> 425  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-E5

<400> 38532

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tgatatggtt cttgcttctg cctactcgca tgagttgccg cgatatgggc ttgaagttgg 120  
tctgaccaac tatgcagctg cctactgcac tggccttctg ttggctcgcc gtgtgctcaa 180  
gatccgtggt ttggatcagg agtacgaggg caatgttgag gccactgggt aggaattctc 240  
tgttgagcca gctgatgaga ggaggccttt ccgtgctctc ttggatgttg gccttatcag 300  
gactacaaca gggaaccgtg tcttttggtgc cctcaaggga gcattggatg gaggcctgga 360  
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tgata 425

<210> 38533  
<211> 458  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-E6

<400> 38533

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ctggtctcat gaaccgtagc tcaaatgcaa tcccttcacc aggaattagt aattttcaaa 120  
gcggaaatat tcattatggt gttaatcaga acgctatggg agtttagctc aagccaccag 180  
gtgttctaaa gaccgagagc actgactcac tgagttgtag ttatggctat attggtggtg 240  
gcaccagtgt ggactctggc ttgttctctt ctcaagtcaa aaatccacag tatggtctac 300  
tgcagaatca aaatgatggt aacggcagct ggtcgctctc acaagatttt gatagttttg 360  
gaaattctct tgggcaaggc caccctggta ccacttcata taacttcag agttccgccc 420  
ttgggaagtt gcctgaccaa agacgagggg gaaatcat 458

<210> 38534

<211> 444  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-E7

<400> 38534

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ctcattcaaa gaagaggccc aacaatctga ttttgggtag aacgtatgac caccacatat   180
atgaccttgt tgaagtagga gttgagaact acaagtcaat ggaatcttat gtttatgata   240
agaagctagc accattactt ggatcgaagc ctttctttgc tttcataggg gaacactttg   300
agagtgctga agagctgaaa catttgaaag aagtgtgtgt tgatcttttc agaggagagg   360
tcgtagagaa tctgaacctt gctggtgtgg atcggatcta tgtgtgcacg gcaatctctc   420
ccactactgt ttacatgatg cact                                         444
  
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<210> 38535  
 <211> 110  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-E8

<400> 38535

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gggaatgggt gaacaaaaag aaaaaactta aagcaaactg ggccttcga                110
  
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<210> 38536  
 <211> 461  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 38536

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gcgcctacta caggggtgca atgggaattt tgcttgtcta tgatgttact gatgagtcac   120
ctttcaataa tataagaaac tggattagga acatagagca acatgcttcc gacaatgtga   180
  
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ataaaatddd ggtaggcaac aaagctgaca tggatgaaag caaacgggct gtgccaactt 240  
caagagggca ggctcttgct gatgagtatg gcatcaaatt ttttgaaacg agtgcggaaga 300  
cgaacctgaa tgtggagcag gttttcttct ccatagcaag agatatcaag caaaggcttg 360  
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<210> 38537  
<211> 440  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-F1

<400> 38537

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tgatcactca tatgtatcac ggaagcatga ggaggataag gtgatcatct ttgagagagg 180  
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ttgtttcaag cctgggaagt acaagattgt tttagattct gacgatggcc ttttcggtgg 300  
atttagtcgg cttgatcatg acgctgagta cttcactgct gactggccgc atgacaacag 360  
gccgtgttct ttctcggctc atgcacccag cagaacagcc gtcgtatatg cacctgcatg 420  
tgcagaggac gaatagggca 440

<210> 38538  
<211> 459  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 38538

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ggccctcagg gatttgaaaa ggtgctggac ttattggaag atgcttgcca gtcgctgctt 180

gatagtatcg tcgcaaacaa tgcaagcatt tctgggtgac atcgatgtaa atctccacat 240  
acagacatct attttcagac gcaccgaagg ctgtagcatc catgcacaac cggagtaatt 300  
tggtttctaa tgcaacattg atcatgtcgt cattaccag gtcttggtct gggtttgtata 360  
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tnttccacta aagataatca gaaacaatca gaatgaccg 459

<210> 38539  
<211> 471  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-021-Q1-K1-C10

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ttgtccccta tcagtgatg acaaatatga aaaggcatgc tgattttatg gttgcagaaa 180  
caaaaaaaga ggcactgatc gttaagacga caatacatga tatcatgaac caaatgattc 240  
gggaacttcc aataaccaat ccagtatacc tcatgctaag cacatcattt ggttcctcag 300  
ctaaaggaac cgggcttaaa gctcttgaat ttgccctctn catctgtgac agtgttgata 360  
tgtatggctt caccgtagac ccaggttaca aggaatggac aaggctactc tcagaggtaa 420  
gaaagggaca cacttcacta catggtagag catattatca gatgatggaa t 471

<210> 38540  
<211> 230  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-C11

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gctctgggtg ttatgctcct ggtaacttca gtttgggcaa taattggctt tcttggagat 180  
caccattatt atgataatgg gggctttttg gtccccctat tgggccaaaa 230



<210> 38541  
<211> 452  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-C12

<400> 38541

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aaagtgtgca agttctattc ttcactgtta tttttgctac atttactgaa atatgacatt 180  
cgttcatatg atctactggg aattcttcga cctttcaatt tcacaaaact tgcaactatt 240  
tttatgctct gcacccacc aaaagtatac attgtctttc tactacttag acctaagtat 300  
gagcaagtct gttgcatttc tattctttct actacttata catgcactgc attatgtatt 360  
taacttttaa gaagatcaag caagtgcttg gtaatcaaag cacttgtttt tgatagagac 420  
atgcattctt tttccttaaa ttgattttaa ag 452

<210> 38542  
<211> 237  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-C3

<400> 38542

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ccgccatcca agaggcccca cccctgatac cacgcttacg gactgaatt aggagattaa 180  
ccatcgccaa gcgaacttac ggcggcactt cttgcaaacg ctcttgacgc ccatcta 237

<210> 38543  
<211> 457  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-021-Q1-K1-C4

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ccgagaagag gaggacgtac atcgccaca tggccaagtc ggcgatgccg gccgagtacg 180

cggaccacgc cgagtggtag ggcgcatcgc tgcgctccgt gtccgcctca gcctccgccg 240

ccaagatgct ctacgcgtac gacaccgtcc tgcacggttt ctccgcgcgc ctacgccgcg 300

aggaggccag cgacctggcg tccgccgagg ggggtgctcgc cgtcaaccgc gaggcgcggt 360

acgagctgca caccacgcgg acgcccagat tccctgggcat cgcgcgccag ggactgtccc 420

cgcagtcccc caccgggggc gacgtcgtcg tccgcgt 457

<210> 38544

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-C5

<400> 38544

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ggcgccaagg ccgcggaggc gctgctcccc tcgctcagta tctggccgcc gtcgcagcgc 180

acgcgcgacg ccgtgggtgcg ccgcctcgtg cagacgctcg cggcgcccag cgtcctctcc 240

cagcgtacg gtgccgtccc ggagcccag gccgagcgcg ccgccgtggc cgtcgaggc 299

<210> 38545

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-C6

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aacccgccgg cgcacggcgg cgtgcaccag cccaccttca agatcttctg caaggccgac 120

gaggggtact gcctcacgt ccgcgacggc aacgtgggtg tggccccgc caacccgcgc 180

gacgagcacc agcactggta caaggacatg cgcttcagca cccagggtcaa ggacgaggag 240  
 ggcaaccctg cgttcgccct ggtcaacaag gccactgggc tcgccatcaa gcactccctc 300  
 ggccagtccc acccggtgaa gctggtgccg ttcaaccgg agtaccagga cgagtcggtg 360  
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 a 421

<210> 38546  
 <211> 334  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-C7

<400> 38546

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 cgattatggt tgtgaagaac aatattgaag agatacaagg aaaagacagc tatccatgga 180  
 gccacaact gctgattttc aatggaaagg tcttgaaaga tgaaagtaca ttgcaagaga 240  
 ataaagtcaa tgacgatggc tttctagctg tcatgottag taacgataaa acatctgggt 300  
 caactggaac tttatattcc cagcactcat acac 334

<210> 38547  
 <211> 349  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-C9

<400> 38547

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 ggacctgctc gatcatcagt ggagagtgtc ggtaggtgtc tgtctctctt ggtggctggt 120  
 tgcaacggtc atggcgacgt cgtctcgtcg ggtgcccttg ctgctgctgt gcctgggcgt 180  
 gctggtgtcc tgctccttcg cggcgggcag cttgcaccag gagctggaca tcacgtgggg 240  
 cgacgggcgg ggcaagggtc ttgacaacgg gcggatgctg acgctgtcgc tggaccgcac 300  
 gtccggctcc gggttccagt tcacgcacga gtaccatgtc ggcatgatc 349

<210> 38548  
<211> 408  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-021-Q1-K1-D1

<400> 38548

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gactgtcccc gcccccgcta ggcgccatga agctgacggt gaagaccctc aagggaacgc 120  
acttcgagat cggggtgcag cccaacgaca cgattatggc tgtgaagaag aatattgaag 180  
agatacaagg aaaagacagc tatccatggg gccacaact gctgattttc aatggaaagg 240  
tcttgaaaga tgaaagtaca ttggaagaga ataaagtcaa tgaagatggg tttctaggtg 300  
gcatgcttaa taagggtaaa acatctggtt caactggaac ttcattctcc cagcactcaa 360  
acactcctgc aacaaggcaa gcacctnctc tagaggcccc acaacaag 408

<210> 38549  
<211> 390  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-D10

<400> 38549

cggacgcgtg ggcgcccagc tgctgctgct cgcgcgcgcg cggtgagacc cgggaggagg 60  
gcctggtggt gggcgggccc gatggagtgg gcgtcggcgg cgtacacggc cgcggcgctg 120  
gtgtgcgcgg cggcgggcgtg cgtggtagcg ctgcgcgaca tctaccgcca cctcctccac 180  
tacgccgagc caatctacca gcggttcatc gtccgcatca tattcatggt cccggtatat 240  
gctgtgatgt cattcctttc ccttatcctc cctaacaacg cgatatactt taattctatt 300  
cgggagatth atgatgcttg ggtcatctac aattttctct cactctgctt ggcatgggtg 360  
ggaagtcttg gtgctgtggt ggtaagtttg 390

<210> 38550  
<211> 446  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-D11

<400> 38550

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aagctgccgg agaagccgtc ctccaaggct ctcaagaagg cgctcctggg cgcgctgagg 120  
tgcggtggatc ccgactcgca gaaacggccc aagatggggc acgtaatcca catgctcgaa 180  
gtcgacgact tcccgtatcg agaggaccgt cgaactcttc ggccggggcaa cggcagcccc 240  
ctggagaagg cgaggaatcc ggcgggcgggg tcatgcgacg gcagcagctg ctacgggggc 300  
gacacgacca ccgcgagcac gccgtccaga ctagtgcagg acatgtagta gtgatgtgtt 360  
tgtagccagc tgctgctggc cttctgagct ctgcctgcgg gctgcggagc aacatggaga 420  
tggacatgct gcaactctgc tccgtc 446

<210> 38551

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-D12

<400> 38551

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gaaacataac ttatgacatc agcgacctct ataacttcat tgatggccta gccgacatta 120  
gtgcgctggt ttatgatcac tcgattcagg cattcctgcc atatgatcga cagtggataa 180  
agcaaaagtt gtttcaacac ctgaagaaat tggtcagcg gtagcacaac tgttgtttgt 240  
tctgatgcct tttatccaac aagcaagcat gcgtgacaat aggtgtccaa tcagtgggat 300  
tgggagtgtg ttcttgtaaa ctttgtaatg ttacatggca gatttgctcc cttgtattct 360  
ggatgtttga ctcggttttc attggtggct tgcttgtggg tgtgggatgc taaacttggt 420  
ttgtttcgca gtgctgggaa tcagataacc ctt 453

<210> 38552

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-021-Q1-K1-D2

<400> 38552

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acactgtaat tcactagcta ggcaagcatc aagtctgcat tggcaaaaca ttgtcaagtg 120  
cctggatcat acactggaaa cgatgaaaga aaactatgta gctccggtga taatcaggaa 180  
aacatttaac caagtatttg cataacttgaa tgtgcaactc ttcaacagct tgctgcttcg 240  
tcgggaatgc tgctctttta gcaatgggga gttcttaaag gctggtttac aagacctgga 300  
gcagtgggtgc tctaggacaa ctgaagagta tgtatggaca tcctgngatg aactgcaaca 360  
cattangcaa gcagttcggg tcctgggtttt gcatcagaaa tcacacaaaa tcctggaggg 420  
aaatacgaat 430

<210> 38553

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-D3

<400> 38553

cccacgcgtc cgatggaatc cattgaaaaa cttgtcccag atttagcatc tctacggggg 60  
gggctctgtc cttcttacat ggatgaagac atattctgga agatttactt taggttgctt 120  
gagtcaaaca taaatgagca tagttctgag gaagatatcc ggagcgtgcc aaattctgta 180  
catcacaaca atgagataga gtctgattct ccacctcacg tctgtgagat agaaagtgtg 240  
aaaagcaacc aagaagggtg ccaatcttcg gatggctcgt ctttcccca gacaagatct 300  
gagcgaagca ttgaccaatg ggtatttgca aagtcaaaat ctgaagaaag catggatcag 360  
tggctctgaa taccttcaga tgtggaatcc ttcagagaag gtaaaaggta cctcagtagc 420  
gaggagctga gtga 434

<210> 38554

<211> 190

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-D4

<400> 38554

cggtcgacca cgcgtccgcc cacgcgtccg accaattgca ttcaaattta tgttctaaat 60  
ttagcatcta tactatggga acggtaaaat tcttacttgg ctcaatacat attatggtag 120  
atacacttta ggtaactcaa ttcaaaattc aattaccata catctaaaca ataattcctg 180  
agcataccaa 190

<210> 38555

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-C1

<400> 38555

accaaccccg tcgcgtttcg ggcgtggcct cctactcttc gaggaccgcc gtacaggagc 60  
ggagctcccc gccgattctc tctccgcctt ccgagaggcc cgaccctga taccacgctg 120  
agggcggtgg tattaggaga ttaccgatgg caagggtggcg gccgtcggcg ctgctggtag 180  
tggctctggc ggcggttcta tcggcggcgt ggcggggcgga tgcgctatcg gatacggaga 240  
ccgacaccga gtgcatccac gagttcgtgc cctatgaggg caacac 286

<210> 38556

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-021-Q1-K1-D5

<400> 38556

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gggcggcgat gggggcgcgg aggaggctgc tggcggacac gccgccggag catcgccata 120  
ggcagggcgc gccggcgtcg gactggagcg cggggtacct taacgggtgg ctgtcgcagc 180  
cgacgccgat cttcggccta cgctcttggt ttctcgtcgg catcgccgtc ggcgccgcca 240  
tcgagctcgt gtcctgtctc atcttcgtct gcctctccca ccgcgcgtcg cgcgcggcg 300  
gtgacctgct cgccgccaac ctctaccccg ccgccgacac caagctgtct aagcagcacc 360  
tncagcacca ggccacgccc accaaggaca tccaggagat tgttcgtcgc cagcaggcgg 420

agacg

425

<210> 38557

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-A2

<400> 38557

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ctccatgagg cagcgggtca cgtggtgacg gtggagctca agaccggcga agtgtaccgg 120  
gggtccatgg tcgagtgcga ggataactgg aattgccagc tcgagaacat taccttcacc 180  
gccaaggatg ggaaggtttc gcagctggag cacgtcttca tcagaggaag cagagtgaga 240  
attaatgata tacctgatat gctcaagaac gctcccatgt tcaagcgctt g 291

<210> 38558

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-A3

<400> 38558

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gcagctgctt tatgggacaa tggtttttgt tcgccagaca atagtcgcag atgcttctaa 120  
ggctttgtcc cgtgctgttt gcattgctgt acgatacagc gccatccgaa agcagtttgg 180  
ctctcaagat ggtggacctg agactaagggt ccttgattac aagactcaac aaagcagact 240  
ctttccgttg ctggcttcag catatgcatt tagattttgtg ggtgactggc tgaagtggct 300  
atacatggat gtcactcaga aactggaagc taaagactac tcaacactgc aagaagccca 360  
tgctgtact gctggtttga aggctgtgac aacatctgca acagctgatg ccattgaaga 420  
atgtagaaag ctctgtggcg gacatggtta cctgaaca 458

<210> 38559

<211> 453

<212> DNA

<213> Zea mays



<223> Clone ID: LIB3069-021-Q1-K1-A4

<400> 38559

gagcgatccc actcccgatc agcagctgat cgctcactct tgcagctcga tcattcttta 60  
gctgctctag ctctagcctc tagccctagc tagtagctag ccactcggtc gtgtagtcat 120  
cagccttctg atcgtcaccc atggccactg ccgaggtcca gaccccgacc gtcgtggcga 180  
ccgaggaagc gccggtggtg gagaccccg gctccgccgc cgctcgtgcc gaggaggctg 240  
cccccgccgc cgaggccaag gtggaggagc cagctgcccc ggccggagacc gagccagctg 300  
ccgccgctga gcccgaggcg gccccgtgg cggcggagga agagacgcca aaggaggaag 360  
agacggcaaa ggaggcggag ccggagccgg agccggcggc ggctgaagag gtgaaggagg 420  
aagcggcagc gcccgctgcc gagacagaag cag 453

<210> 38560

<211> 257

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-A6

<400> 38560

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ctaattttaa aaattgaagt gatataataa aaaatataaa ataacattat acaaaaaaat 120  
agtgcactcc attttaatat tccaagctat cgtcccctag cttactacac ataacatcat 180  
ctatTTTTTA acctaatttt atttaacttg ctcattattc ataacattat gatttgcaaa 240  
aatcattatt tacctaa 257

<210> 38561

<211> 449

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-021-Q1-K1-A7

<400> 38561

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gcagggcctg gcccggtcac tctcgggtggg gagggacagg gacagggaca gggaccggaa 120  
 agggaaacggc gcagggcgacc gcaagaccgc cgtgccggcg gtgctgcgga cgtcgggcac 180  
 cctgtggggc gacggctcgg acacgttcgc cgccgtctgc tcgcggcgcg gcgagaaagg 240  
 catcaaccag gactgctcca tcgtctggga gggattcggg tgccaggagg gcaccatctt 300  
 ctgcggcatac ttcgacggcc acngccccg gggccactac gtggccaagg tgggtgcgca 360  
 ctcgctgccg ccgtcgctgc tgtgccactg gcaggaggcg ctgcgctcg cgtcgctcat 420  
 cgacgacggc aagaaaaagc tcggcgact 449

<210> 38562

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-A8

<400> 38562

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 tcagggcctg gccggggcac ggtcgggtggg gagggacagg gacagggaca gggaccggaa 120  
 agggaaacggc gcagggcgacc gcaagaccgc cgtgccggcg gtgctgcgga cgtcgggcac 180  
 cctgtggggc gacggctcgg acacgttcgc cgccgtctgc tcgcggcgcg gcgagaaagg 240  
 catcaaccag gactgctcca tcgtctggga gggattcggg tgccaggagg gcaccatctt 300  
 ctgcggcatac ttcgacggcc acggcccgtg gggccactac gtggccaagg tgggtgcgca 360  
 ctcgctgccg ccgtcgctgc tgtgccactg gcaggaggcg ctgcgctcg cgttgctcat 420  
 cgacga 426

<210> 38563

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-B1

<400> 38563

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 aaaaaaaaaa aaaaaaaaaag aaaagctaaa aatcaaaaaa cgccatctct caacaacaac 120

aaaaacataa acatatcaca caaacaacca acgcaccccc tcacccaaac cctccatcc 180  
 caccatca accacctac tccttccaaa aaatgcaccc actaaacca tctcactccc 240  
 catcacttca cactctctat aaacccaaaa accaacagtt acccaaacac cataaatcac 300  
 tacaccttcc cttacttccc actttctaca taa 333

<210> 38564  
 <211> 405  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-021-Q1-K1-B11  
 <400> 38564

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 agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaataa ataacaacta aaaacaaaaa taatggtaca 180  
 atgacaactg catatgaaat tacttaaaca cataatatct gatgactgac cctcagccaa 240  
 tgactgaaaa tttggcaagg ctaacacctt taacatcatt cctaacaaca ccggtgctaa 300  
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 aattcctact gtggatgtct aaattgaaca cctcactttc agaat 405

<210> 38565  
 <211> 85  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-021-Q1-K1-B12  
 <400> 38565

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 ggaaaactaa aacacataaa aatga 85

<210> 38566  
 <211> 425  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-021-Q1-K1-B2

<400> 38566

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ggaaaatggg gaagacgccg gtgcggatga aggcgggtgg gtacgcgctg tcgcccttcc 180  
agcagaaggt gatgccgggg ctgtggaagg acatcaccac caagatccac cacaaggtca 240  
ccgagaactg gatctccgnc acgtctctcc tcacccccgt cgtcggcacc taccaatacg 300  
ccatgtggta caaagagcag gagaagcttt cccacagata ctaaattgga tgtcctccaa 360  
gttgctgagg cttgtcgcag ttgaattttc catgatgggt tgtataatct gtcaatgtca 420  
tttct 425

<210> 38567

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-B3

<400> 38567

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ttgccccagc aggcggcatg ggagcctaca acgtgctgat gagtgcctct gatggccttc 120  
taaaagggtg ccgggaaggt atcttcacag cgaccttctt cgtcctgggc cgcaagccta 180  
tcaaggaagc tgatatggtg aacggcggcg tcctttgagc tgcaacatta gtatgggggt 240  
gtactcataa gagctatgaa tcatggccaa cgtgttctga gctgatgtgt gattactggg 300  
ttgtcttatg ggtactgggt tatgaatcat gttcccgcat tagccctgat ctgaatgtgt 360  
gctgtgtact atgcgctatc tgaataa 387

<210> 38568

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-B4

<400> 38568

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cttgatatat cgtgcaaacc ctgctctaga taaaaaaaaa aacaaataaa aagaaaccaa 120  
 aaaaaataa aaaaaaaaaa acttaaaaaa actaaaacaa aaaacctatc aaagaaactg 180  
 atataagaaa acgaaggcaa actttgaagc atggaacatt agtatgggat tgaactcata 240  
 agagctatga atcatggcca acgtattctg tgcttaagtg tgtttactgg gttgtcttat 300  
 tcgttatggg ttatcaatca tgttaccaaa ctaaccacta tctcaatatg tgctgtgtac 360  
 tatgcactat ctgaataaaa atgcagaatt actcctaaaa aaaagagtcc tctaacaatg 420  
 acattttotta aattaggttt agtttaaacc att 453

<210> 38569  
 <211> 372  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-B5

<400> 38569

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 ggatcaagag aagcacttgg tacagaaaac ctatcgaggc aaacgcggca aagatcaagc 180  
 acggcacagc aagagacacc accgtgcgtg acgggtgaagc cgccacggcc tctagctcga 240  
 tagagtgcag taaccgggca gaggaagacc aagggtcgtc gagccttctt aacctgaacg 300  
 cattcgacat cattttcttc tcgactgggt ttgacctatc taaccttgtc gaagaaagac 360  
 acgggcgga gg 372

<210> 38570  
 <211> 342  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-021-Q1-K1-B6

<400> 38570

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 ttacatgggt tagcttacgt gccaccctgc aagagagaaa gatagtttag gtatatgtgg 120

atactcttat cgaggaccct gtcagtctct ctggccagct cgtcgacagc ttctcggaga 180  
 ggatatatag canaaagcgg acttccatgc cttctggttt ctgcatggat ctgtggcatt 240  
 aaggaactgc agggctcttac cgttcgcttt gtagggagca tattcggccc attcttttgt 300  
 tgcagatcgt tgcattgatt cttcattgga aatttagctg aa 342

<210> 38571  
 <211> 216  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-B7

<400> 38571

tacacctacg cgtatcgaga gcccatgctg actcaatgcg gtcacttctt ctgctggctg 60  
 tgccagtagg cgtcgtttga cattactgcg cattcatcag agcgtctaata gtgcaaggct 120  
 cttgtggacg aagacaatct tgtacccctt tattgacgcg gcaaggatcg tgttgaccca 180  
 aaggcaaatg acatgcccaa cggtgacatt ccttaa 216

<210> 38572  
 <211> 346  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-A12

<400> 38572

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 ttgaacgata acagccatct ggttctcaaa gaggatgacg ttataggtat cttagaaact 120  
 gatgacgtga aagacatgaa gcctctgaac gaccgtgttc taatcaagggt tgcgtgaagct 180  
 gaagacaaaa ctccaggagg cctactgctt acggaaactg ccaaggagaa gccatctatc 240  
 ggaacggctg tagcggttgg cccaggcccc ctggacgagg acggcgagag gctcgcgctg 300  
 tccgtctccg cggggagcac tgtcctgtac tccaagtacg ccggca 346

<210> 38573  
 <211> 374  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-B9

<400> 38573

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tttggcaagt gcagctttga ataaattgaa cagattggcc tcgtggccat tttcctgtat 120  
ttatctgtag tcaggtccaa ttcttttctg ttggtgagcg caagttattc atagatgact 180  
cggtcacggg aatatttgta atattatgtc atgtatcggt aaatttcagt tgttttggtt 240  
cagctgccag aactgttagc aagagtattc tggagctgga agctcgaacg caactgggtg 300  
tatctatatc cgtgaatgcc gaataaagga ggggcaataa actgcagcga aatatgtgct 360  
gtcagacatt gttg 374

<210> 38574

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-G4

<400> 38574

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tggagttggt tgaaggaggt gcttgtccac aagagcacia ctgctggctt caggaacagg 120  
atggggcaca acagggcacg aggggaacia gaggacgggt acaggcaccg ccgtggaggt 180  
catcaagggt ggcgagacag tgacacaaat gacagaccaa agaggaggag gtactgacct 240  
actgcactca cagcttgacc ggctaataa gacgacgtc 279

<210> 38575

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-G5

<400> 38575

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cggagggaaa gattgtgagc aaggtctact tgtgtgagaa actgtctctc actaatgaga 120  
tgtattttgc cattaccctt gataggaaaa ctgctgggtc gctcattatt gcttgacga 180

agggaggaac cagtattgaa gatcttgagg agaagtatcc tgatatgatt atcaagggttc 240  
ctgttgatgt atttaaagga ataacagacg aggatgcagc taaagttggg gatgggtctag 300  
ctctaaagtc agcggatagg cagtcttcta tagaacagat taagaaactg tatgaacttt 360  
tctgcaagtc tgattgcaca tt 382

<210> 38576

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-G6

<400> 38576

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tacctcgtgg caatttcgtc cctcctctc ttggattctt ccatggagga gcaagggtgag 120  
cgacacatcc agcttcagct actgctcctc cctgcgcctg cagggtcatca tcaagtcctg 180  
cgtgacgtac cggcggcggt gccagccagc gccgtggagc ccccccagct ggaccttgat 240  
ctgaccatga acattggggc caggccggat tcaacggggc aaacac 286

<210> 38577

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-G7

<400> 38577

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gttacattac accttaactt tcacttcaga agaagaaagc cgaaccggat tcccagaagc 120  
cttgctcctt ggggtcttct tccgtggggc gttggggcgc cggccggggg tgttggggcca 180  
aaacccgaat gatttctggg aacatgtgtt caccgggggt gaccgcaatg gggcctttgt 240  
ccgtggccat gttcctgggg tacgggtcgg tccggtgggg gggcatttta acggggga 298

<210> 38578

<211> 429

<212> DNA

<213> Zea mays



<223> Clone ID: LIB3069-020-Q1-K1-G9

<400> 38578

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acttcatgac ataagtgatg agccaggctg ctcaatgcc ttcagctttg acttcgagca 120  
gcatgcattg tctgaagaac aaatgaagga tcttatctac caagaggctc ttgcattcaa 180  
ccctgattat cagtagccaa agttcaattt cagccggtga ttggcttcat tgacatggag 240  
atTTTTTccc cacctgatgt cagtgcacaaa agtcaccaac tccgattgct agctgtaaat 300  
aactgcctta cctgaagata ctccattcct ctgattaaaa gctggtgacg gtgtcattaa 360  
gggtagaaaa gaacgagctt gtgaaagtca aatttctgcg aagccatgga tttctgtgct 420  
tacaaatat 429

<210> 38579

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-H1

<400> 38579

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ccatactctg atatgtgtgc tgctgaaatt attggggcca ttgtaaacga ttcctatgc 120  
cctcaaatec cttcatggcg tgatcctgag tggaagggat tgatggaaag ctgttggtcc 180  
agtgatecag ccgagagacc gtccttcaact gatatatctc aaaggttgag gaaaatggcc 240  
gctgcaatga atgtgaagtg aagggttcgga agccatattt gtcttgattt tcttagtccc 300  
agctgtcatt tgccttgtgt cgaaaataac tatgctactg gtgctggggg tgcatttcac 360  
cataccattg tacaagaagg tgggtgtagc gacttagtac tacgatatgc tcaattt 417

<210> 38580

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-H11

<400> 38580

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 gccaacgagg tgccbaagac cgcggagAAC ttccgcgcgc tgtgcacggg cgagaagggc 180  
 gtgggcaagt ccgggaagcc gctccactac aagggtcca ccttgaccg cgatcatccc 240  
 gaggttcatgt gccagggcgg cgacttcacc cggcgcaacg gcaccggcgg cgagtccatc 300  
 tactgcgaga agttccacga cgagaagttc gtgcgcaagc aactcgcgc cagtgtgttc 360  
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<210> 38581

<211> 391

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-020-Q1-K1-H2

<400> 38581

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 catcatcctc ggcgatagtg gggttgggaa gacttccttg atgaaccaat atgtgaacaa 180  
 gaagttcagc gatcagtaca aggctacgat cggcgcggat ttctcacca aggaagtgc 240  
 gttcgaggac aggctcttca ctctgcanat atgggacact gctggccagg aaaggtttca 300  
 gagtctcggc gttgcattct accggggagc agatnngtgg ggcccagtct atgaagggtca 360  
 ttctatgaaa tcatttgaca accttgacaa c 391

<210> 38582

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-H4

<400> 38582

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 aagctcgatg gatgcgtgtg atgattatat aaaggacatt ataaatcaat gggagcaaag 120  
 gaaaggaaag gaaaggaaag ggagaaaatt tcatatagca attgtttcgc gtataggagg 180

gagaacaaag gtcgctctc gaaagttctt gccttggttg gaagggatgg cgtcggaggt 240  
 ggaggacgac gcggcgggtgc cgggcgcgcc gctggtcgcc aatgggtgcag ccgacgtccg 300  
 ccggaggaag gatcaggcga aagcgattt 329

<210> 38583  
 <211> 403  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-020-Q1-K1-H5  
 <400> 38583

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 tcgccagttg cagtgagcgt caatgacgac agagctgcag ttcaatgcat tgcggaacaa 120  
 agatttgtcc gtgaagtgac tatacagtac aatctgtgca atgagccatg gttgaaatat 180  
 agtataaaca ttgtggcaga taagggattg aaaaagtctc tttatacttc tgctagactg 240  
 aagaaaggag aagtcataata tttagaaaca cacattaata gtttaaacag gtatgagctt 300  
 tgcttttagtg gagacaagcc ttgcattatt ggatcaagct gcaatgcac tgaatcagaa 360  
 cagagaaaca ccatagcggg agtcaccatt ctcagaatgg tga 403

<210> 38584  
 <211> 389  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-020-Q1-K1-H7  
 <400> 38584

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 ggcagcgtcg tcgtcgtgtg aggtcaagca aagaacccat tgagatgaat ctcaaccaca 120  
 tagaccactc aaatcttcag cttgataata ctagtgcact tggagggtta aaaccaaaca 180  
 agttacctca ttggcttcag gaggtgttac gtgctccttc atctaagcca cctgaacgtg 240  
 agctaccagc aacagtttcg gcaattgctc aatcgggtgtg ccttcttctt ggagaacaag 300  
 aaccatcaat acctncattc ttgatcccg gaaccctctt ttcttgccca aaagatccaa 360

tgattaattc aaaagagaaa cttcgcaag

389

<210> 38585

<211> 74

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-H8

<400> 38585

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tggcaccggc atgc 74

<210> 38586

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-H9

<400> 38586

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ggcgccacca accaagctca tacatctgaa ttgactagtc caactcaggg atttctttgg 120

ggaccaatca aactcaagaa ctaagtttca tgtctgatct cgacgtccag cttocatctg 180

cttttgatcc gtttgcagag gcaaattgctg aggactccag tgctggtgct ggatcaaagg 240

actatgtgca cgtgcgtatt cagcagcgca acggaaggaa gagtctgaca actgttcaag 300

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<210> 38587

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-021-Q1-K1-A1

<400> 38587

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aggaggacga cgctgcagag ccagctgagc aagtttgagg acgaggacag cgagaaggca 120

agagcagccg cggatgcat gagtcctgtg caagatggat tgttgataag aaaaccgcca 180  
gacatgaggt ttccatcaag aagaaatgtg cctatgtctg ctgatccagt gggccatctc 240  
cacaatggca gcagtttcga tgccgtctca gtgtcgggtt cagatggaag ttctgggcca 300  
tataccccca aaattagcgc aagcacacac aactcatttc ttcaggatag tagcaatgct 360  
ctctcgccat ttgccaacaa tcgcaccgtg aggaacccat tgaccagttc tggtagctgg 420  
tcangaagct cagctcctga tgctagtacg gatgg 455

<210> 38588

<211> 297

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-021-Q1-K1-A10

<400> 38588

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gccatgcatg aattccagtc caacaatacc ggaagctatc tggatgtctt caagtcgaaa 120  
gaattgaggc tagctttctt tgctggggct ggtcttcagg ccttcagca atttaccggg 180  
atcaacaccg tgatgtatta cagccccacg atagtccaga tggctgggtt ctctccaac 240  
aggctggcct tgctcctctc cctgatectg gcggccatga acgccgncgg aaccatc 297

<210> 38589

<211> 322

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-020-Q1-K1-G3

<400> 38589

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cgcgtgtcg ggcgcccgc cctggtcga gctcgcggac cgctcggctc tctccgccc 120  
ggagtccctc gccgaggcca cgtncgctt gcgcaagaac ctggcctact tccggtcaa 180  
ctacgccgnc gtggccgcgc tgtgcctcgc cgcggcgtc ctgggcgacc ctttctcct 240  
ggccgcgctg ctggcgtgc tcgccactg gtgcctcctc tacgtgctcc agcccncga 300

cgcgcccccc gtctccgcgt tc 322

<210> 38590  
<211> 485  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-021-Q1-K1-A11  
  
<400> 38590

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ggaaaccata aagagaacct acagccaagt tctatcaccc tgatggccca gaactcatgt 120  
tttgctaagt cttctccacc taagtctca aaaatttgaa caaggccata ttatcagata 180  
aaagcagatg tagctttcat aggacttagt tccagcaaag caaagggttg cattgcacca 240  
aacaatagcg tctatacttc attcttatgg cttggagaag cctatgcaac atgacaagcc 300  
agatgacatg tagatgagaa gggtctgcat caagagaaac caaagcaaaa tctttgcatc 360  
aagagagcac cgatgaaaag ctgatgtaga ggccagttga caaacttatg gaagaccagc 420  
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gaatg 485

<210> 38591  
<211> 433  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-020-Q1-K1-F1  
  
<400> 38591

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aaacaatcaa atcctgatag tgatggagaa gagaaaggga agcctgaccc gtatggtgca 120  
cctgtgtcct cttcagggag caaaaagaga aaggcatcct cttctaagaa aacaaaaaat 180  
aaaagtgttg cagagagttg cttgcctgaa aaacctcttg cgaaagttgc ttggtttagg 240  
gttattcttg atgaagcaca aagcattaag aactaccgaa ctcaggttgc cagggcttgc 300  
tggggtttgc gagccaaaag aagatggtgt ttgtctggga cacctataca gaatgctgtt 360

gaggatctct atagctactt cagatttctc agatacaatc cttacgctgt atataagcag 420  
 ttttgcactc tga 433

<210> 38592  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 gcctgctggc gctgcccgc cccaacgccc ccggtcgagc caccgcgcgc gcctcctgct 180  
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 tgcgcgatg tgctcggcct cgtcaaaggc gaggttggca aggtgcctgc cgagccgtgc 300  
 tgtacctca tcaaaggcct tgcggacttc gagggcncg tctgcctctg caccggccatc 360  
 aaggccaacg tgctcggcgt cgtcatcgat gtcccatca agctcagcgc cctcgtcaac 420  
 tact 424

<210> 38593  
 <211> 79  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-020-Q1-K1-F11  
 <400> 38593

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 acaggatcaa ataacgcac 79

<210> 38594  
 <211> 407  
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 <213> Zea mays  
 <223> Clone ID: LIB3069-020-Q1-K1-F12  
 <400> 38594

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 catcccggaac tgggtgttacg tagtggcctg cggaacccaa gcgaagcgat acgcctctga 180  
 agcgcttcg cccgaccatc ttcgtctctt ctaccagaga tcgccgatcg cccatgtctc 240  
 taaagtcaaa gcgccccctt ttatgtctct tggcggagct gaccttcgag tgcctgcttc 300  
 taatggccta cagtacgcaa ggagcctaata agaaagagga ggcgatgtca aaatcatgat 360  
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<210> 38595

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-F2

<400> 38595

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 ggggacgcca tacatcaaag atgactaaag aagaggaaga tgaagaatac ctccaagagg 180  
 aagaagatgc ccttgctggt gcagggggga acacatttag tttcacaacc ttcattgctct 240  
 taaccctct gatcctgggg cgtggcagat tagactccga tggggaagtc actagcgagg 300  
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<210> 38596

<211> 468

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-F3

<400> 38596

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 cgaatagctc tcttcctctt gcaaatatac aaccgtgttt caaacttctc ctcttcaggc 180  
 tttttgaacc cagaggcgaa accaccctcc aaaggtataa tgcaaggctt gaagtatgac 240



aagaatttgt cagattcata accttggagt tccctatggt ggattgcacg acccccaagg 300  
atggcatcaa gttcaactgt cttgattgct gcagtcccag cttcatcctg caatacaaac 360  
agtcacaagg aaggctagaa ctagtacaca taataaaaca gaattttaagt tcacaagtgt 420  
gtacttgact cggatctttc ccaatccaga agtggatatc atatagat 468

<210> 38597

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-F5

<400> 38597

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caagtttctt ccatggtaac cttccaagta caggatggta gggtgacatg tgataggtgc 180  
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cagcttgagc ttgttgattt gtcagagaat ggtatttcgt tggagggcat gagagctggt 300  
tctgagttta gttctacatg tagtttaggg gatcttcctg tggaaatctt attggagatc 360  
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gcttcatttg tttcaacaag gcaagatgc 449

<210> 38598

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-F6

<400> 38598

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gccgacatgg agcgtggccg cagcagcacc tcttcctctt gccggtcctt gctgctcctc 180  
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aatggcgcca cggcggcagc tgccgacgac ggcctcgtga tgactgaaga aagtgacgct 360  
gacgccacga g 371

<210> 38599  
<211> 423  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-020-Q1-K1-F7  
  
<400> 38599

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cagatagtgc tattctcgtc ctgaactgca gtggcattgt tcttggaaacg cttcctgtta 180  
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cta 423

<210> 38600  
<211> 270  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-020-Q1-K1-F8  
  
<400> 38600

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tattagttaa ggtagaagag ctgaaccata caaacaacac acttgcaagc ctataggaga 180  
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<210> 38601  
<211> 401

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-020-Q1-K1-F9  
  
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<210> 38602  
 <211> 403  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 ttcgcgggggt tctccttagg ttacgcggcc ttccttgtct actccagttt ccatcatgct 240  
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 gtcataattg caggtttggt atttccttca actatttagt ttgagtttgc aaagttgtaa 360  
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<210> 38603  
 <211> 420  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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cgcaaggcag gcggccccag gaagaagtcg gtgacgcggt ccgtcaaggc cgggctgcag 180  
ttccccgctg gccggatcgg gcgctacctg aagaagggcc ggtacgcgca gcgcgtgggc 240  
actggcgccc ccgtctacct cgccgncgtc ctggagtacc tcgccgccga ggttctggag 300  
ttggcagggg acgcggcgaa agacaacatg aagacgcgca tcatcccgcg ccacgtgctc 360  
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<210> 38604

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-020-Q1-K1-G11

<400> 38604

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caaagccttt gtcagtggcg aaagcaggac agaaatttaa gtgggaccaa acaaaatcgc 180  
aaagcaacta gacaagaccg tgaaactgat ctctggtgga tgtggacgca ctaaacadgg 240  
aaatggctca ctatgagtgg cattntacca tgaaatagtg aaaaggataa tgagaaagaa 300  
agcactcatg tcgaagtgtt tgagcagact agttgtggta actatatctc gtctagcaac 360  
cataccagta aaatcatgaa atgttgatgg ctgataagaa ttgtggtgca cctttacaat 420  
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<210> 38605

<211> 378

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-020-Q1-K1-G2

<400> 38605

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ggcacggtgc gaagttgtat gatggtagtg caatggagaa tttgatgaag agcgtggagg 180  
ctattaggag attcaggaca tcacagtttg atctagttaa atctggagag aaggctgaag 240  
gagatgttgt atcgggtgaat tttgctgacc tgaaggctgg cacacctaca ccaacgggtt 300  
ttgtcatgaa tcttcaacca tctgaagcaa aggtaggtct tgacatccgg atccctncta 360  
atgcccattgt ggaagcac 378

<210> 38606  
<211> 290  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-E9

<400> 38606

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aggggggatgg cgagcggcgg ggcggtgagg gatgtgggct cgcctgcgga gctggaggcg 180  
gcggtggccg gggcgcgggc ggcggccgtg cacttctggg cgtcctggtg cgaggcgtcc 240  
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<210> 38607  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-D12

<400> 38607

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acaccaatgc caagcttcta tactgaacca actgctgtca aggttgaatt gacaaagata 120  
cccccaaaa gagccaaatc gccaaagatt ggccggtcta aaaacaagtc cacaccatat 180  
actgacgaaa atgctaccgc agaccagact gccacactga acctcgatga gaatgttgct 240  
caaaccggag tgaaaaaacc aaccccggtg aatccaccaa agaag 285

<210> 38608  
<211> 422  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-D3

<400> 38608

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agctcctttg gaccctgcat cattctctga tgcaattgtc cagatttatac tggataatgg 180  
tgagatctg gaactcgtcg ccaaaagtat tgagtcttcc gacctcaact tctcacgtta 240  
cggtgacacc ttttttgagg tggtttttgt tggaggacgc actcagcctg gcactgtaaa 300  
acctgaagaa ggagaccgtc acccttattc tatgttagat tgtgtggcac agcgtgaaac 360  
aattttgcct ttcgtactct atatccagaa aacattgcgc aggaagcctt tcttaataaa 420  
aa 422

<210> 38609  
<211> 425  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-D4

<400> 38609

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cgccaatgcc agccccctcc gcgacgtcgc cgccgccgt gctggcgccc ggatcaccat 180  
gggcaacgac ctgtggtacg gcccgaccg cgtcaagtac cttggccct tctgccgcca 240  
gacgccctcg tacctgaccg gcgagttccc cggcgactac ggctgggaca ccgtcgggct 300  
gtccgcggac ccggaggcgt tcgcgcggaa cagggcgctg gaggtgatcc acgggcgggtg 360  
ggcgatgctg ggtgcgctgg gctgcatcac cccggagggtg ctggagaaag tgggtgcgctg 420  
ggact 425

<210> 38610  
 <211> 451  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-D6

<400> 38610

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ggcgtcggct ccgcgctcgc tcggctctac ctctccgtct acaactgggt cgtcttcttc 180
ggatgggcgc aggtgctgta ctacgcggtc ctgacgctgc gtttgagcgg gcacaaggcc 240
ggctatgcgc ccgtcgagag gccggtgcag ttcgcgcaga cagccggcat catggagatc 300
gttcatgggc tcgtagggct ggtgaggtct ccggtctctg gaactcttgc acagattgga 360
tccaagttga tgcttacgtg ggggtgcttg tggagttttc ctgagacca gtcacacctt 420
cttggtacta ccctgggtcat aagctggtct a 451
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<210> 38611  
 <211> 409  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-D7

<400> 38611

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gccatgttgc tgactacatg aggaacctcg ctgaagagga gccagagaag taccagtctc 120
acttcagtga gtacattaag aagggaattg aggctgatga catggaagct ctgtacaaga 180
agggtccatgc tgccatccgt gctgacccct ctgtgggtcaa gtcaaccaag cagccaccaa 240
aggagcacia gaggtacaac cccaagaaac tgacatacga acagaggaag gccagtctca 300
ttgaaaggct caaccaactc aactcctcgg gcggcgcaga tgacgacgat gaggatgacg 360
agtaaagttt ggtcccatcg aagtagtgct atcttatgcg gcgatcagt 409
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<210> 38612  
 <211> 357  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-D8

<400> 38612

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gctcactttc cctatccatg gtggcaacga agcttaatct ttctggttca gatattgtag 120  
atgatgaacc actgtctctc tctcttgggc tccctagtgt tgtcgggtggg agagcagatc 180  
aggagatgaa gcaattcctg ccggagaagc caggcataaa cacttaatgc cccttttagat 240  
ttgcgagtgt acagttttgt gcagctgtat tgagttttaga cagggttgaa gtatggtata 300  
gctgataaat tatggatatt tttcatTTTT tttcaaaaaa aaaaactttt aaaaagg 357

<210> 38613

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-D9

<400> 38613

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tagtggtgcc aaacagctat ttgtcagatg agctttgtgc catttctca ttagaagtat 120  
atcattcgat ccattgggga tctgtgaacc atgtacctgt ttatgtaact tttttttttt 180  
tcgaaagagc gcaggaggac tgcgcacca tatattaaag tagagggaaa ataaagggcc 240  
ataatgatga tatccatcta tctatctatg taactggttt atgtaccatg tacctgttta 300  
tgtaactggt taccagtgtt atccatct 328

<210> 38614

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-E1

<400> 38614

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gatgagcaga tgctggttta tgaattcatg tcaaattggca ctttacgtga tcattcttct 180



gccaagtcca agagacctct aagttttggt ttgaggttga aaatcgcatg ggggtgctgca 240  
aagggaattt tgtatctaca tactgaagca gatccaccta tattccaccg tgatgttaag 300  
gccagcaaca ttctgttgga ctccaaattc gttgcaaagg tagccgattt tgggtctctcg 360  
aggcttgctc cagtgccaga tgtcga 386

<210> 38615  
<211> 322  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-E10

<400> 38615

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gagagcaatt gcagaatccg gtgggtgttca ggtcctgctg gatcttatca gttcaagcaa 180  
tcttgacact tctgttcggg ctgcaatggt tgtaaactt ctattcaata accatactat 240  
ccaagagtat gcaaccagtg aaacagtcag agttataact gcttctattg aaaaagatat 300  
atgggcttct ggaagtgctt ac 322

<210> 38616  
<211> 398  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-E11

<400> 38616

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gccagcgagc attagagagc aattgcagaa tccggctgtg tacagggtgct gctggatctg 180  
atcagctcaa gcaatcctga cacttgtctt cggcctgcaa cgttcgcaa acttctattc 240  
agtagccata ctatacaga gtatgcaacc agtgcaacag cctgagctat aactgctcct 300  
attgaaaatg atttatggtc gtaccgaaag tactaacgag gagtatctca gagcactcaa 360  
tgctctgctg aataacttcc gtcgtctgag ggtcactg 398

<210> 38617  
 <211> 396  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-E2

<400> 38617

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gcccttctct tcgcccgggt gctcctcgcg gcctccgccg ccgcggtctc cgggttccac 180
ctgggagggg acgagagcgg tctcgtgagg ggtgtgctcg ccgcgctccg ggaggaacc 240
gaagcccagg acgccgctcg cttcgccgct gccactaca acaagaacca gggcgccgct 300
ttggagttaa ctagggtgct caaatccaag cggcaggtgg tgaccgggac cctgcatgac 360
ctgatactgg aggcagctga tgctggaaaa aagagt 396

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<210> 38618  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-E3

<400> 38618

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ctttatgaaa ttgcaagggt acacagccaa caagattggc acatataacc tcgccatctc 180
cgcgaagcat catagcgtcc aggtctatgt ggcagcgccg gtaacttcca ttgatctctc 240
cctcccatct ggggatgaga tagtcataga agaaagatca ccaaaggagt tgctgaactc 300
tgaaggtggt ctgggaaagc aagttgctgc atccggtata tcagtctgga acccagcttt 360
cgatgttact ccagcaaadc tgatcactgc aatcataaca gaaaaagggt tgatcacaaa 420
aactgatgc 429

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<210> 38619  
 <211> 394

<212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 tgggtgaattt ccgaggcaca ggcagcccta ccgtggtggc ggccgaggct accgtggcgg 180  
 tgggcgttcc cgtgggtcat attacggtgg cagaggctat ggaaacacgg ggaggggtgg 240  
 ccctgggaat tcttatcctc actggggcaa tgggagagat tgattatagc agcagcagcc 300  
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 <212> DNA  
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 <223> Clone ID: LIB3069-020-Q1-K1-E5

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 agatttgaca aggctgttag tttgcacctc ggatctgctt atatccacag ggcaacctat 180  
 agttcagcaa gtattgagct atacatatgt cccgagaaga ttagatagat gagttggcgt 240  
 cttggcgatc gatgtgggct tttgccgttg ttgttccttg caatttatgt tcgaaaaaaaa 300  
 gaaacatggt cgcttttaag gtttacgata cggatatatat tattcttgga agtggt 356

<210> 38621  
 <211> 362  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-020-Q1-K1-E6  
 <400> 38621

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cgcttgtgga gattgtgacc gcgatcaggg aagccaagga agctctgtca tcgaggttcc 180  
ttgactgggt gagcggcggc gccaaaggaga accactacaa tgtgtcgcta gactacggca 240  
ccctcgtcgt gactgactgg agccatgtgg gcttcaacga ggttgactac gggttcgggtg 300  
agccgagcta cgtgttcacc ctgaacgacg acgtgaacat cgtccccttc gttgtgtacc 360  
tg 362

<210> 38622  
<211> 340  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-E7

<400> 38622

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tagagacgac atccggatct tgttgctacc aaggcctaata aataatacaa gtgcatcaaa 180  
ctgaaaattc caagttttctt cccaaaacaa ggcaactcaa aagtctagca tatattatat 240  
gtctgctaaa agctttctcca tctattcatt tccatagcaa ccctactgcc tgacttccaa 300  
caaaaaagaa aattaacgaa agataaagca actaatgggc 340

<210> 38623  
<211> 157  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-E8

<400> 38623

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ggcagccctt attgagtgc aatgtgggat gcctttgtgt atatgtgaag caccaaaacc 120  
agaaccttct tctacacctg ttaagaatat caacacc 157

<210> 38624

<211> 446  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 38624

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caaagcgaaa gcagcaagaa gcaaagcaat ggagaaccct gcgagtgtgc tagttctacc 180  
agcgcagttc accaaactca ccttcggaaa cctgtacatc cgccggggccg ggccgggcag 240  
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cgtctacgac ggccgcggcc ccgacgccag ccttgtggcc cgcggtgcagg ggatcaccag 360  
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gctcacgctc gtcaccaatg gcgtga 446

<210> 38625  
<211> 438  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-B8

<400> 38625

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tttgagcttt gtgaaggggtg ttgttgactc aatgacctt ccattgaatg tttctcgtga 180  
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gaactttgga aaaattttta agctgggtgc catggaagat aaggaaaatc acaagagaat 360  
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<210> 38626  
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<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 caatggttat ctgtgccgcg aaggcgagag gcttaggcag caggacagag ccacgatggg 240  
 ccgaagctaa gcgttagctt ctttggtatc tcaagggagc aatagccctt ggaaatttca 300  
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<210> 38627  
 <211> 383  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-020-Q1-K1-C1  
  
 <400> 38627  
  
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 aacggcatca accccaacgg cgggttctctg tcgtacggga acatggagag ctacgcgatg 180  
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<210> 38628  
 <211> 450  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-020-Q1-K1-C10

<400> 38628

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gcaggatggt ggcattgatg atagaaagat agttgcttgg ggtgaaggac ataattcatg 180

ggttagtgga gttgcttttg attcatattg gtccccacca agttctgatg gaaatggaga 240

aaatgtatat cgcttcgggt ctggtgggca ggacacccaa ctacttctgt gggacctggc 300

actggatgag attggtgtcc cactacggca tccttcaagt gcctcaccta cgtttagcag 360

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<210> 38629

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-C11

<400> 38629

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aggcggttga tctggccacc aaagaactag gtggcaagat tttgcggcag ccagggcctc 180

tacctgggat caacactaag atcgctctt ttgttgatcc agatggctgg aaagtggttc 240

tggttgacaa caccgacttc ctcaaggaac tccactgaag gctcgggata cccatgtgct 300

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<210> 38630

<211> 445

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-020-Q1-K1-C12

<400> 38630

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caagttgaag gagagaggca ttttagcgaa acccacacat gacactataa tccgacttgc 240  
tcttcccctc acaatcagtc ctgaggagct tgcagaagca tccaaggcgc ttagtgacgt 300  
gctggagcat gacttgccac agctgcagct gcagaagcag ataaaaaagc cagaatctga 360  
ggcagagaag ccagtctgtg acagatgcgg ccgggacttg tacggatgaa tgaagcctnc 420  
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<210> 38631  
<211> 396  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-C2

<400> 38631

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gtgtactatt ccatgtatgg acatgttggc aaactagctg aagagatcca gaaaggtgcc 180  
tcgtctgttg aaggtgttga agctaaaaca tggcagggtcc ctgaaaccct ccctgaggaa 240  
gtgcttggaag agatgggcgc accccctaag cctgacgtgc cagtcatcac gccgcaagaa 300  
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<211> 425  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-C3

<400> 38632

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caggatgctt ctcttggggg ggaagagggc aatgcttttt cagaagaaaa ggctgtggca 180



gctcgtgggc atcaactgaa gatcatagtt gagccgggca caaccaacat cggtggaggc 240  
aacgtttagt tttcgtcaag gcattccttg ggaagcagtg aagcctcaag taagcggaag 300  
ctccacatct ctgatgggca agaaaagaca gaagaatcgg caagcacttc aaagcgactg 360  
catagaacat caagcatccc attcgacttg aaccttccag gcgacgatga ggaagcccat 420  
gatga 425

<210> 38633  
<211> 432  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-C5

<400> 38633

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ctgggttctt gctgggtcttc gctttcttgg tggctaagct gattgccact ctgatcgctg 120  
tatatgccaa ctgggcgttc actgcgatca agggcattgg atggggctgg gccggtgtca 180  
tctggcteta taacatcgtc ttctacttcc cgctggacat catcaagttc ctcacccgct 240  
atgcgctgag tgggagggca tggaacctcg tccttgagca gaggattgcg ttcacgagca 300  
agaagaattt cggcacggaa gaaagggagc gcaagtgggc gcatgcgcag aggactctcc 360  
atgggctcca gccgccagaa gcatccatct tcgagaacaa gacgacattc aatgagctga 420  
accagctcgc gg 432

<210> 38634  
<211> 452  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-020-Q1-K1-C6

<400> 38634

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cccgcaacaa atgccagtgg cgccgcagca gccgatgtat ggtgggtggtg gtcgtctggc 120  
agggtacatg cagcatcctg ctgtggccgc tgcacactac tacagtaacc tgggacggcg 180

gggatgtatg ggtaccccgg cgcgaacggg ctgtcccagg gcatgtatgg cctctcgggtg 240  
 caggataact cgtcgtacca gactacgaga gcgccaccct ctgcggcgac gaagcccgaa 300  
 gacaagcttt tcggcgacct tctgagcatt gccaaacca agaaagcttc atgagacgag 360  
 caggagcatg agctttgtcg tttgatcttt tacacttggtg taacattcat tgtctggctg 420  
 tcgtataagc tttttgggtt ctctnttttt tt 452

<210> 38635  
 <211> 208  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-C8

<400> 38635

cggacgcgtg ggctgagaaa aacaaggagt cccctgggtgg accatggcag ttcgttggtc 60  
 tgttgccctt gtttgatccg cctagggcatg acagcgctga gacaattcgc aaggctcttg 120  
 gtcttgggtg taacgtcaag atgatcacgg gtgatcagct tgctattggt aaggagactg 180  
 gaaagaggct tggcatgggt accaacaat 208

<210> 38636  
 <211> 363  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-C9

<400> 38636

cccacgcgtc cgctcgtcc agccgcttac agctccgccg ctgcctctc cgaccgccgc 60  
 gagaatgccg ttcaagaggt tcgtggagat cgggcgcgtg gccctggtga actacggcaa 120  
 agactatggc cgctcgtcg tcatcgtcga tgtggctcgc cagaacaggg cacttgtgga 180  
 cgccccgat atggtcaggt gccagattaa cttcaaacgg ctctcactta ctgacatcaa 240  
 gattgacatc aaacgcgttc ccaagaagtc aaccctgatc aaggctatgg aggaagctga 300  
 tgtgaagacg aagtgggaaa acagctcatg gggcaagaag ctgattgtcc agaagaggag 360  
 ggc 363

<210> 38637

<211> 409  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-020-Q1-K1-D1  
  
 <400> 38637  
  
 cgccgcccgtc gctctgcccc cattcccttt cacaacaccg agacgccagg atgacggcgc 60  
 agactgcgga ggagctcgcc acccagatcg agcagcagaa gctcgaggag cagaagaccg 120  
 aggcagagga gggtgtggtg gaggatgagg aggacgacga cgatgaggac gatgaggatg 180  
 atgatgaact tgacggacaa gaaggggatg ccagcggcaa gtcaaagcaa agcaggagtg 240  
 agaagaagag ccgcaaagcc atgctgaagc ttggcatgaa gccatcact ggtgtcagcc 300  
 gtgtcactgt gaagaaaagc aagaatatac tgtttgtcat ctggaagcca gatgtgttca 360  
 agagcccga ctcagacaca tacgtcatat tcggcgaggc caagatcga 409

<210> 38638  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-020-Q1-K1-D10  
  
 <400> 38638  
  
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 gatcatatca tcacacaatg acacaaacag aacgtaacca aagaagacga ccataccat 120  
 acccaaactg ccatgcgtga gaatagatag acagaaagaa caggaactca accaacacaa 180  
 gacacagcaa gctgcagccg cggcaggcat ggggcaccgt gcgcactgac accgggcccc 240  
 accaccatta ccaccgacg cacactntat ttagcccacg tctctgcag cccgcaccgg 300  
 acacgtccac gcgacagtca ctgctagcta cgtaccgggc tacgtacgac acacacacac 360  
 acacacacag agagacgcca gtaaccgtag cgtactgaac agcaaaatcc cgtgtcatac 420  
 tgccatgtac gcgcgcgaga g 441

<210> 38639  
 <211> 389  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-020-Q1-K1-B4

<400> 38639

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catccgccag cgctacacgc tcgccgacgc gcaccaacgc tacgccgagt cgctgcgcgc 120  
cgtcggcgcc ctgctgcacg acttctctcg cggggtccag tcgctgccgc cgnccnncgc 180  
cgagcccgcg ctccgncctc cgcagcagcg gaagggcgac ggctccctg ccgcgctgcc 240  
gccggccgcg atggcggtgt cctccggcgc cggcgacgcg ccggccgctg ccaagcaggt 300  
ccgcacgcgc cccgacgacg ggcatacca gttctncgac ggcgactccg attccgagga 360  
tgggcacatc aagttccact ccgacgaag 389

<210> 38640  
<211> 341  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-A1

<400> 38640

ctcgacgacg ttgtcacgcc ctctcagctt cgctcgacca tcgctaagga gatccgtaaa 60  
aaccagaacg tcaccaaccc caaggtggtt gatatgcttc tgttcaacgc gacggaggag 120  
ctgaacaaca tagtcgaaca tgcaaagcag cgccatcatg tgattgggca gtatgtgac 180  
ggccaagagg gcctggtgca tgagctgggg tcgaaggatc tagggaactc tgacttctg 240  
aagaaattct acacaagcaa ttacttctga tctgtgttgc agatttaca catctggtat 300  
actccgggtg gtgctctgaa taagacgaca ctgaggacct a 341

<210> 38641  
<211> 378  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-A10

<400> 38641

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ggcgtgggtg agcggatcga gatggccgcg tcagatgttg agtaccgatg cttcgtctgc 120  
 gggctaggct gggccacgga cgatcacttg cttcacaacg tcttgagcac ctacggcgag 180  
 gtccctcagt acaagatcat cctcgatcgg cagacgcata agtaccgcgg attatgattc 240  
 gacaccttct gcacggatga tgcgatgcag aacgccatcg agggcatgaa cggtaaagag 300  
 ctgtactgct cgaacatcac cgtgaacgag ggccagtccc gcggaggtcg tggaagcgag 360  
 cgcggcggag ggtactga 378

<210> 38642  
 <211> 165  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-A11

<400> 38642  
 acgcagacgc gtgggattcg ataaaatatg ctttgcatac catgatgctc ggagctgcat 60  
 cgacaatgac ctgacttctg ctggcaatgc tgatgatata aaagatgacc tgaatggtct 120  
 cgacaaggct gctagtgctg atctaggatt gagaactata aaacg 165

<210> 38643  
 <211> 371  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-A12

<400> 38643  
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 ggcacttctt gacgaaattg gtggcagcac gtcgtcctgt atccatgtca tcgattttga 120  
 tcttggcggt ggaggccagt gggcttcttt cttgcaggaa cttgcacact gccgtggcgc 180  
 aagtggcgca gctctgccgt tcgttaagct cactgccttt gtatcagctg cttcccacca 240  
 tccactggag ctgtgtcttg cgcgtgacaa cattgcacag tttgctgctg accttggaa 300  
 tccctttgag ttcagtgcta tcagtgctga tatgatcaac cctgcagaat tcattttctgc 360  
 cgctgatgat g 371

<210> 38644

<211> 464  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-020-Q1-K1-A2  
  
 <400> 38644  
  
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 ttgagcgagg aaggcaaaaa ggagttcaac aaggcttata gcgcacgttt ttacccatgc 120  
 atggatatac tctacgaatg ctatgaagat gtggcctctg gaagtgaat ccggagcggtg 180  
 gtgttggtg ggcggagggtt ttatgagaaa gagggcctcc cagcttttcc gatgggcaac 240  
 atcgaccaa ctcgcacgtg gaaggttggt gaaaagggtgc gctcaaccgc ttcggaaggt 300  
 gatcttggcc cgctccatgc cttcactgct ggagtgtaca ttgccctgat gatggctcan 360  
 attgagatcc tgaggaagaa ggggcactcc tactctgaga tcatcaacga gagcgtgatt 420  
 gagtcggtgg actcgtgaa ccccgttatg caccgcccggg gggt 464

<210> 38645  
 <211> 448  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-020-Q1-K1-A3  
  
 <400> 38645  
  
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 gtgagtagca cgacaacaac aatggcttcc ctgaaggccg cgaagcccag cggagttgctg 120  
 gcgcagggca aggagccggc gcccaagctc agcgagacgg cgacgaagcc gtcagccgcg 180  
 aagagcggcg gcgttaagaa ggctgagcag aagccccggg aaaccaaag gaaggtgaag 240  
 agcagcaaac cggcggcggc ggccaaaaag tgacgtacag tacagtacgt gtggagtgtg 300  
 atggagcttc ccatgcatga gtgaatccat gccatgttat gaatctagtc cttcctttct 360  
 tgtatcttcc atgtgacgcg gcgtgtgcgt cccctcatgt gtgatgatgc cagatgaata 420  
 ctaacaataa gaacgttgtg tgactggc 448

<210> 38646  
 <211> 380

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-020-Q1-K1-A4  
  
 <400> 38646  
  
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 attgttttga acaatgggcg tatgaaccgg tggaagaaca attcatttga tagttgtttg 120  
 tgtccaaaat ggaactaaat ctaaaatttg tggagcaaac cactcaatcc agatctctat 180  
 ttaatcaaac attttttttg ttatgatgca gttccacacg tgaaatagcc atatggatat 240  
 gtaacaacat aaatttggtc agtgggaaat aagtttctat aatacattta tgcacccagg 300  
 tgacaagaaa aaaatatttt gtcatttcta taaaacatga tgcatttttt ctcaattcat 360  
 agtgtgatgt tattcctctt 380

<210> 38647  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-020-Q1-K1-A5  
  
 <400> 38647  
  
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 cagtctgca agttgctgct gctgcccctc cccctgtctc tgtgattggg ttcgagggat 120  
 ttgagaagcg ccttgagatc agcttctctg aggcacctgt cttggctgac cccagcggaa 180  
 ggggactgcy tgcgctctcg cgtgcccaga tgcactctgt tcttgacctt gctcgggtgca 240  
 ccattgtgtc cgagctctca aacgaggact tgcactctta tgtcttatct gagtcgagcc 300  
 tgtttgtcta cccatacaag attgtgatca agacctgtgg aactacaaag cttctgctcg 360  
 ctattccgag gatccttgaa cttgctgaag agctcctgtt gccactcgct gcagttaaat 420  
 actcccgtag aacggtcata t 441

<210> 38648  
 <211> 216  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-020-Q1-K1-A6

<400> 38648

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tgggcgtaga ggctttgcgt cgcaatctgg ataatcacat ttattttattg tggcgcggaat 120

cctggatggc cgcagcatct gtgtcagttg tcacctctgt ttctttcaat cctacttgac 180

tcagaacata aaaaaaaga ttcattgaaaa aacaac 216

<210> 38649

<211> 314

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-020-Q1-K1-A7

<400> 38649

cccacgcgtc cggagccact tgggtgttgc gctgggatat gcccatTTaa ttttcttggT 60

atgattcccc tatggatgtt tgccatagca gttacgtgtg gcaatacttt tggTcttaag 120

ccatcggaag aggacccaag ggctgctatg atgcttgctg agctagcaat ggaagctggT 180

ttgcctaagg gtgttttgaa catcgttcat ggcaccaatg atgttgTcaa taatatttgt 240

gacgatgagg atattaaggg ctgtatcttt tggntggTtc caatacagct ggtatgcata 300

tttattctag agca 314

<210> 38650

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-A8

<400> 38650

gtgcaaagaa aaggattggc tgtggttgat tgttctctggg cacgtttaag tgatgtccct 60

tttTtgaaac tacgttgctg tgctctctgt ctcttaccat ggttggttagc agcaaTccT 120

gtgaactatg gccggccatg tgaactggca tgtgtggaag ctttatcagc agcccttata 180

atatgtgggg aggaagaatc cgcacatttg ctggttggga aattTaaatg gggTcacgca 240

ttcttggtc taacagagat 260



<210> 38651  
<211> 369  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-A9

<400> 38651

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ggaatcgcaa agagggccgt ctcacccgag ttaaggaagc catggagcac aaggaggctg 120  
ggtgccaggc ccccgaggga cccatcctct gcatcaataa ctgtggcttc ttcggcagcg 180  
cggcgaccat gaacatgtgc tctaagtgcc acaaggagat gataacgaag caggatcagg 240  
ccaagctggc tgctctctct atcgacagca tcgtgaacgg cagcgacgcc gtcattggagc 300  
cggttgttgc tggcagcaac acggtagtag ctggtgccc aagtcgagttg caaacaatga 360  
acgtgcagc 369

<210> 38652  
<211> 238  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-B10

<400> 38652

cccacgcgtc cgactggacc aaggctctaa tgtacatgct gtgcaatctg aagtgggttc 60  
tctactggct tattggcaat acaagttttg gaccaacctc tggatcactg gacacacaat 120  
ctgtggagaa caagagttga tgctggtctc tctctgcaac aactggacat aggttgtgta 180  
ctcgacccta ttcggtggat atagccgcag tgacaattat gacacgtttg atgtgcac 238

<210> 38653  
<211> 318  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-B11

<400> 38653

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gtgatgctgg tatggtgaag atggttccca ctaagcccat ggtggtggag accttctctc 120  
 agtatcctcc tcttggtcga tttgctgtcc gtgacatgag gcaaacggcg tctgtcggag 180  
 tcatcaagag tgtggagaag tatgacccaa ctggagctca tgtgacgaat gctgctgcc 240  
 agaagaaatg atctatctgg ctggtgacga atgctgctgc caagactaaa tgatctatct 300  
 gtctggtgct gtgcttgc 318

<210> 38654  
 <211> 391  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-B12

<400> 38654

cccacgcgtc cggacgaact agaagcttat cgccaaattc actttcctgt gttgtcagaa 60  
 ctcaagaaga tgacaaagtt gccctctgct gctttcttac ggtccgaagg caaatgtccc 120  
 cttgcacctg aagaggctgt gcttatgcta gcagctattg gtttcaagcg cagcacaaat 180  
 atatacgttg caggtgctga aatttatgga gggaaggata ggatggctgc cataagtcgt 240  
 ctttatcctg ctttagtaac taaagaaacc cttctgtctc catcagagct cgaaccattt 300  
 aggaacttct catctcagtt ggcagccctg gacttcattg catgctcagc tgccgatgta 360  
 tttgctatga ctgaccagg aagtcaattc t 391

<210> 38655  
 <211> 384  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-B2

<400> 38655

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 ttggccactt caatgaacct caatacaagt aagttgaact agatacgtgt gcacccaaac 120  
 aagacctagg ttaagaattt ggtgtccaaa gaagcccagg aaaccagAAC aatcggtAAC 180  
 ctgtgttttg gccagcaagg actgcatcag catatataac aaacactaca catacacctg 240  
 tgcttctccg ggcaaattt cataaacata gcgactttca tcgctcactc tgacagtcgc 300

tttgattgat cagttgccaa ctagagatgt gtccaagtcc taagcccccc atgtggcagc 360  
 aaaaaggata cctggaggta gtca 384

<210> 38656  
 <211> 403  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-B3

<400> 38656

cggacgcgtg ggccgaactg cagcacctct tcttcgcgca cccacacgtg ctcccatggg 60  
 cggcaccgcg atctcagtcg ggctgctcct aaccgtcgcg cgccatgtgg cctccgggcc 120  
 ccgcgccccg ctcgggggccg tccgcgcgca gtccgcgcgcg gcggcggcag cggcggcgct 180  
 gacgcaggac gacctcaagc ggctggcggc ggtgcgcgcc gtcgagcagg tgaagagcgg 240  
 gatggtgctc gggctcggga cgggctccac ggccggcttc gccgtcgccg agatcggcgc 300  
 gtcctgggcc gcgggcaagc tcgagaagat cgtcggcggtg cccacatcca agcgcacctt 360  
 cgagcaggcg cagtcgctcg gcataccgct cttaocgctc gac 403

<210> 38657  
 <211> 378  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-H8

<400> 38657

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 ggcgtcagtg ttcaaggacg ctcttcctct tacgcgtgag ttcaagtct aaagtaaagc 120  
 cgtagaacaa ggagttacgt ctttcgcgcg aaccctacaa gatcataatt tcaccagggt 180  
 ccgcccggcc gcgctcgac tgaagggaac cgaacgcgac caacccttc ctcacctcaa 240  
 cagaggggcc ccaactcttc ttaacatctc ctaacttata ttcaattgaa taagtttcca 300  
 acacgacact ccataccggt gcactcgcgc aacactacga acaaaaccg tcaccacgca 360  
 cctcaaggcc cacgaatc 378

<210> 38658

<211> 360  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-019-Q1-K1-G2

<400> 38658

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tccgcctact actactagag caaatatagt agaatttcag tgtgttgccct tcttgatgat 120  
ctatacttta tttatctatt tattttacgg tggttaagtc tcttattagt gttgatgttt 180  
tggttctggc gtggtctctt gtagtagtgt aagtggtcgt gacttagttt cctcntttgt 240  
gtcctcctcc tcttctgtcg gttgggatta atttggttcc tttgtactgt tgtactgtta 300  
ccgttgctga ctctcttgat gagcttgttc ctgttgctaa gcgggttgcg tagaatcatt 360

<210> 38659  
<211> 349  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-019-Q1-K1-G3

<400> 38659

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atcataatat cgtctgcggc gcgtagaagg cctcctagaa tcataaaaac tcctaggaca 120  
ccaccgtcac tccgggcacg gacgagtcta gcgaggacga taagtcgata gctgttttgcg 180  
taagaaagac ctagtgcctt tcgagttagt tcccttacgc tgtcgaagcc nctatgggcg 240  
tcttaggaaa gcacgcggag tcgaaggaaa gtgcgaagag cccttagggc gccccggacg 300  
ggaagcacga cgaattcttc gagtagctac ctcatacggc cggcggtac 349

<210> 38660  
<211> 312  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-G4

<400> 38660

tgatttatgt gcttgtttat gtgcttgaaa aaaaaaaaaa aaaacccaaa cctcaaaaaa 60  
 aaaaaaaaaa aaaaagaaga aacgcaaaaa aaaaaaaaaag ggtggttggtc tcagaggact 120  
 taagtccatg catgtgcgta cgtgatgcta cagtctcttc acagggctat tcaaacctaa 180  
 cctatcgggtt gctgccccat aatgctgcga tcgggaaaat ttcggtgcca tttaatccaa 240  
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<210> 38661  
 <211> 483  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-G5

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 ctttgcaacg gagattcggt tgctggcgaa gaatacttct ccgtcggatc tggagggaaa 180  
 gtgtgctgtt gcaaagcatc atagtgcga tcggttcac tcacttgta agtcggttcc 240  
 tgagaagctg gcaccatta aaatttagaa agtgaacgtc ggaatggaag ccgagaccgc 300  
 aacgcccgat ggctaaaccg cggcacataa gcctacttaa gattcgtatc cccccgcat 360  
 cggaggagaa gaagagaatg agtccacccc agtactagcc tcctagggac ctctcgacgt 420  
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<210> 38662  
 <211> 353  
 <212> DNA  
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<223> Clone ID: LIB3069-019-Q1-K1-G6

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agactcgtgt ctttgcgcac tacggactcg ggtactcgtc cggcatttgc atgtttcgtt 180  
 actgacctgc ttaaggaagg gcaaggcgag gcggcgattt gatgttagtt agacgagacg 240  
 agacttaccg aagttgatag ttgagggccg ggcgcaaaac acggagctga cgagcgcggc 300  
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<210> 38663  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-G7

<400> 38663

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 ggctcggaaa gggtaagggc tgaggaagcg gaagtccgat tagagtgatg.ggcctcctgc 180  
 gtaacctgag gtattggtgt cgaggaagac acggccccgcg ttaagtataa aagagaaggg 240  
 atggataccg cgtaagagtt tcgaggttcc ggatactggt acttacgaag cgtctttttg 300  
 cacacctaag gaggtagtcc aagtttaaca acggaagatc gcttacggac cttcgacttc 360  
 gtatagtgtc cgtcgg 376

<210> 38664  
 <211> 343  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-G8

<400> 38664

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 ggtgctggtt aagtgttggg gggtttgggt gcgtcttttt cctcggtctgc tgggtgggtct 180  
 gcggggggtgc cgggtgggtaa tcgggttggg ggtaggaatt agaagctggc tttgggtact 240  
 cctaagcctg ggggatctgg ctctgaagg tgggtaatcc aatgctaaat ggatgggttaa 300  
 aggggccaat aatgggtggt tcctttcatg ggaggattcc ccc 343

<210> 38665  
<211> 145  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-G9

<400> 38665

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agcatgccta aagactttgc aactgatgaa gaaagcaatc gcccttggtc tacatgtggc 120  
tgaagaataa cagatctcga ttgaa 145

<210> 38666  
<211> 452  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-H1

<400> 38666

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actggtaggt ctgcgggttag ggctgtttct tagagtgagg acgctgagtc tgctgttgct 180  
aatgattttc ctactattat ggatcatacg attcatacgc ctaagcatga tattgcttat 240  
ggttatcgga agtatagtga tactatatct aaggatctta agatttcctc tcctggcgat 300  
aagttggcta ttgctcccggt tactaggaat ttcgaggaaa ctttgccggg cgaggtcggt 360  
gtcgagcacg ctgcggagct tattggtgct cctatcgata aggataaggt cgtcgtatac 420  
tctaagggcg gcgttaaaga gggccgcact ct 452

<210> 38667  
<211> 149  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-H10

<400> 38667

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cgacgggatc ctgcgatagc tataccatgc agctcaggat gcctactaca ggcgatggga 120  
 tgcgccacta tagcgacta atctcatga 149

<210> 38668  
 <211> 223  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-019-Q1-K1-H11  
 <400> 38668

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 ggcttccaaa actgggtgtg acataagtgg tatcaaagct gtgctgactg taggaccgct 120  
 ggcctagagt agaattggcc gtgttaagga cttattgact attacttcac ctcaccttg 180  
 attttgattc aaaatattag tcacctcgac taattttatg ttg 223

<210> 38669  
 <211> 238  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 38669

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 agcactgtta atgcggctga gggcaagggtg accgtgtntt accgctggcc tatagtacaa 120  
 ttgtccgtgt caaggactta ttgactatta cttcacctca tccttgattg tgattcaaaa 180  
 tattactcac cttgactaat tttatattga aacaaacgta cgattagaaa agtatact 238

<210> 38670  
 <211> 407  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-019-Q1-K1-H2  
 <400> 38670

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 gcctcgagtg cggatggatg tgcgggtgga tgtgcgagtc gttggacggt cgaaacggtc 120



gtcacgatat atcgagtccc caatcgctcg gaccctcgtc gcgataccga accttcactt 180  
gcactagaaa tcacccggac tacacctatt caccatgcct aaagcataga tatatgcata 240  
atggataatc gagaagtctc agcgatacgt atatctaagg atcttaagat ttcctctcct 300  
agcgataagt tggctattgc tcccggtagc aacgatttcg aggaaacttc acggggcgag 360  
gtcgggtgtcg aacacgctgc ggagcatact gatgctccta tcgataa 407

<210> 38671  
<211> 367  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-H3

<400> 38671

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aataccgccc tgcgggctga tgacgcttcc cctgctgata ggctgaccag gaaatcgagc 180  
gacaattcta agcttcgagc ctcccacttc gtatcgaagt cctttagtaa aaaggcccca 240  
gacgctcggc ggcgaagtgc tataagaaag gcgtgcatc gcagcactgg catcagggcg 300  
accccgctga ttcagagaga cgtaagttct caatcccgta agaacgtata acgtaaagca 360  
gtgcgct 367

<210> 38672  
<211> 358  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-019-Q1-K1-H4

<400> 38672

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gntcttgtct tgctaagtgc gcgtcttgtt ctgctgagga gcctagtggg gctgttacgg 120  
atacntagga ggagacgttg gtggatgatt tgcgtcgtg ctttcggtag tcgtttcatt 180  
tggtcgttgn tacgtttact ggtgttttgt atacgtctta tcacgacga ccgttcctat 240

taattatatt attacatact cgaggctcgct agtcgggggtc ggccggtaat aagataagaa 300  
gaaccgggtcg ttctctaata atacctatac tcatcattca ttcggtcgtc ccgagaac 358

<210> 38673  
<211> 481  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-H5

<400> 38673

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tgttccttgt gaattgatct ttgagagggt gagattatct tgacgcttgt tacggagatt 120  
gataactaatg tgttgttgtt tgttttagtt ggtgagggtc ttcttgccgc tggcttgctt 180  
cctctacatc cttgtaagtt taataagtgt cctgagactt agaagcggaa tgtttctgtg 240  
tctcgggtac gggacactgc tgctgataat cgggttactc ggtggaatta tactacggac 300  
tcacgtactg agcgtaagt gaattaagtc agtgtgatta gtgaggagcg tctcgtgtc 360  
cggggcgctc gcaactacgt tccctatccc tctcgtccta ataggcgggt caagatctgt 420  
taagcgcggt taccagacaa tagcgagcgg gagccttaga aacaccgtta tcagccttcg 480  
g 481

<210> 38674  
<211> 389  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-H6

<400> 38674

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gagaacactg gagcctgggt acgctgaagt ggtagggatt gttgaaatat tagaattgtc 120  
atgtgcggaa gttgaattcc ggctagaaga ctaatgaaat tgagtttggg ggtaggcctt 180  
gattctcgct agaaactatt ggtgctcgct agtgtcgttg ggactaaact gatcggaaat 240  
gtagacatgg aaaacataag ttaccgccg agttagtaaa acgttagaag cgcaacaagt 300  
gaaatgcctg gtaagtacat tacaatgcac gtagagaccg tcttaaggat tctgggtacac 360

gcgtcaagcg tcgtatacgc gccaacgag

389

<210> 38675  
<211> 191  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-H7

<400> 38675

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catttgagac tgggtgacagg gatgttccgg cgattgatta agtattataa ttgacatttg 120  
ctgaagttta attaccggtt agaaaactaa tagaaattta ctttaaactt aaagattatt 180  
ttacgcttca a 191

<210> 38676  
<211> 448  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-G12

<400> 38676

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ggacctcggt gatgccgccg gtcggttcgc aacgcagacg atcccttccc gcaacgcctg 120  
ctccaagtac gatttcgtca aggtcaaggt ctgggtcggg gagaacgccg accactacta 180  
cgtcctctcc aggttctctc tcagcaggat gtcacagtc accaagattc ctaatcatgt 240  
cgccatcaag attgcccttg agctcaagaa gctgcttgtc gacaacagcc tgcttgatgt 300  
atcccagagt gatctagaag ctaatctggt caagcttatg gaaaaacggg gatacggaga 360  
ggagtatata aatcgctata aaatgatgac aaggttccat catcaacggg ttccactagt 420  
aattttggtg tgtggaactg cctgtact 448

<210> 38677  
<211> 399  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-E8

<400> 38677

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cttccgggtc gaagaagttg taggaatgcg tcgactctac cgtgcattcg aaggaagtaa 120

tcgtgcagca caacgatatg ttcccgttac gaagagaaaa cctgccccgt agcccaacaa 180

caaatacccc cagataaccc gggctatctc ggccggatag ggcatataac tcatgctcta 240

gcacccccgc ctccacgget ctggcacgga acgttcaggc gagccccccc cagtcgcgta 300

taaaaaata gccaaatctg acggcactct aatcgtcgga gaaacgtcag cgtttcacc 360

ccggtcgcgg aaccggaaac tcggaacgta cttaccccg 399

<210> 38678

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-E9

<400> 38678

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tgttacgtcg ctccaggggc catgaccatg cgttctgctt gtactgtgga ataaataaat 120

gatgggttat ggtactcttt atctggtaga gtttggcagc ttgtgctttg agggatgtaa 180

tagtggcccc gatgtttgta ttttcatggc gagccggaaa ttttgtggaa taaaaaaaaa 240

aaaaaaaaat ataaaaata aatagataaa aaaaaacaac ttgtaacaga ctcatataac 300

gcagaaaaaa aaataataaa cgcacaaagt taccattaaa aataaaaagg gcgccctttt 360

taaaggaccc aagtt 375

<210> 38679

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-F1

<400> 38679

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cgacttcctc gtagggacat caccgggcct tattgatctt ataggagaat tctattcatg 120

aaggatcga gacggtgatg catgtctaag gctactacag gaaggtcaga agtccactga 180  
 gtagtgaata cggagacggc gtcgatgacg tcgagaagtt tacaaggtgg tgtagaaaag 240  
 ttgatctcga gtcgatgata ggcaaggagg ataacggtgg ccgttctccg ttaagggtcg 300  
 ggtaagggtc ggtttccgag ttaaaactcg ggagctgatt agatgggaat ggtagttagt 360

<210> 38680  
 <211> 330  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 38680

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 cgcgccctca atgttcaa atgcaggaaac tccacattcc tggacatctt caattgaatt 180  
 gggaagaaca ttgcacgtct acgttttcag gccgtttaag attatctgat tgacagtttc 240  
 acgcctaaca tngtacanga tagattaaga acattngttg ctgctgctcc tgaatttctg 300  
 caatcaggat ctgctcagcc tatntttgat 330

<210> 38681  
 <211> 466  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-019-Q1-K1-F11  
 <400> 38681

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 ctgctccgnc gcatgaagtg cagctccaag cccgacaagc gcctcatcct catcggtcca 180  
 cctggctctg gaaagggaac tcagtctcct attatcaagg atgaatattg ctngtgcca 240  
 ttagccactg gtgacatgct gagggctgct gtggcgcca aaacacctct aggtatcaaa 300  
 gctaaagaag ctatgaataa aggagagctn gtttcagatg atttggttgt gggcattatt 360

gatgaagcta tgaagaaacc ctcatgccag aaaggtttca ttcttgatgg cttttctaga 420  
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<210> 38682  
<211> 476  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-019-Q1-K1-F12

<400> 38682

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atggttgctg gaccagtttg gcgttcttca tgacgggaag aagccgtacc cgggcgcat 180  
tctggcattg gagaagctag cggagaatgg ggcaaagatg gtgataatca gcaattcctc 240  
taggcggtca tctgtgacaa tgaagaagct caagagcctg gggttcgaca cgtcctgttt 300  
cctcgcgacc atcaccagtg gggagctcac acatcagcac cttcagaaga gagacgaccc 360  
atggtttget gctcttgaa ggaagtgtat ccatatcact tgggacgatc gaggggcaat 420  
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<210> 38683  
<211> 175  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-F2

<400> 38683

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acgtggccga gactagggta acgggtgggg tggaggtgtc cggttagttg gatggctacg 120  
tgaatggggt ttgggcggaa gagaaatccg atccctcctg gtggtagtcc gggaa 175

<210> 38684  
<211> 400  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-F3

<400> 38684

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ggacgataac atacttggtta aagagggttag atcaatttgt tcctgccaca ccgactagta 120

aacaaggtaa tagtgagtcc cttaatagca cggcacgtca tagtaaaatg tccggaggtt 180

atatagagga tcattcgaaa acctagctct gacctcttgg gtccgggtccc ccgaataccc 240

ttcctatttg cacttaaaag acctcgaaaa gtcaacgcca ctgagataaa tcgggcccgat 300

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tgaagatacg cataaagaag agaccggcga agtggagtca 400

<210> 38685

<211> 365

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-019-Q1-K1-F4

<400> 38685

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accggttatt ctgcattaac gtctgaggct ggtaagtggc cgtctgtatg tagtgatatc 180

ttttctattg ctattgcgtc tgcaacgttg ccgttcgtag aggtgaagtg ggtgcttgag 240

actattgagt atacatgtta gtaggaagtt cctgggtctg ttacttgtcc ntattactcg 300

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tagtc 365

<210> 38686

<211> 467

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-F5

<400> 38686

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 ccggagaagg cctccgaaag aaaacgagtt cactttcaaa tccgctatcg ccgcgaactt 240  
 ggggaatttt ctcggagtcc ccaccttaag gttcacgtcc gagagaaccc tagactcgcg 300  
 taaaaacgtc ggcgtacggg ccgcggccga taacattcac gagcatccca cgcacgacgg 360  
 aacggagtat catcgtccag aagacgtcta caccgctaata tctcctctgc ctctaaaggt 420  
 ccacggaacg acggggcggt gcgcaggaca taccgtaccc ttaaacg 467

<210> 38687  
 <211> 203  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-F6

<400> 38687  
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 ataccattaa tcactacttt tatctatctt acttctactc caccaaactg gataattcat 180  
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<210> 38688  
 <211> 338  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-F7

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 gatgctgagt aaggggaggg aaaagcctgc ccggtgcgtg ttacgcccga gaagcctctc 180  
 ctagaagaca cactcggata gaactaagcc aaggctctcg cataatgaaa gaccttgtaa 240  
 agcactgtcg acgagcattt tagttccgaa ttcccgctcag acgatccgtc cttaaaaaag 300  
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<210> 38689  
 <211> 435  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-F8

<400> 38689

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 ccgtacttga cgacttgccc ctctcaagg aagggttcct ataaaaccct taaccgcata 180  
 gtcgggagat tcaactagttc gcaagtgggt catccgtata attcgagcgg attgtgcggg 240  
 attaaatcgc ggagcaccgc gtaccgctcc actagtagca cacagcaacc ctcttccgt 300  
 ggttctaacc caggcattcc ggagacgctc taacctttcc cgtaatcggc gttgctcggg 360  
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 gaaccgtaga caccg 435

<210> 38690  
 <211> 388  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-G1

<400> 38690

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 ggtataacga acaaccgcta ttacgaggct acgaacaagt ataatcgcta tgggtgcgct 240  
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<210> 38691  
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<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-G10

<400> 38691

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caggcgaaac ttacttact acgcaggcta tcctaccttg acacggatcg caaacttgta 180

ctcctcaacc tcaaaggctg taacatcctg attctgocca ccacgatcac agagtcgctc 240

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<210> 38692

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-G11

<400> 38692

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caatcaaaaa ggagggtgag gatcttgagg ctgctggtat tcaggatgatc cagatcgatg 180

aggcagctct aaggagggtt ctgccactac gcaagtcaga gcatgcattc tacctggact 240

gggctgtcca ctctttcagg atcaccaact ggggagtcca ggacaccacc cagatccaca 300

cccacatgtg ctactccaac ttcaacgaca tcatccactc catcatcgac atggatgccg 360

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<210> 38693

<211> 469

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 38693

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ggttagggga gtcggaggct ggccctctaa tctaaagcta gacgataagg aagagaatct 240  
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<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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tacactttgt atgtttctcc tgtgttgatg gtgaacttta cgagcttgat ggtctaaaat 180  
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tcatcaaagc tagaattgcg gagaacccta actcgatgaa cttcaatgtc atggcccttt 300  
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<211> 482  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-019-Q1-K1-D2  
<400> 38695

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 cctttcgtcc cgctctagg taataccccg cctatcagcg cggcagtcgc gccgaccgga 300  
 gcgtgtaacg cgaggctcgcg tgggaaaggc atgctgagac gatgaagaaa agtccgaccc 360  
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<223> unsure at all n locations  
 <223> Clone ID: LIB3069-019-Q1-K1-D3

<400> 38696

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 ctctgtatt tcggtactga agaattttc acttctctgt tctggtggtg tggtttggtt 240  
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<210> 38697  
 <211> 467  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-D4

<400> 38697

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 gggtgtcatg aggcggggtg gattactggt tagggatttc ctgttaaggc taagcctgtt 180

gctgatgttg atattggtgt gtttgctggt acgaaagggt ctgataggga gattactcct 240  
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 ttttaatacag ctaggtccaa cgaggcgccg gtagggaaga tgaagacaca tacaactccg 360  
 gaatccgcta tcggagggtga atcgcccgac aaaacagttt gacacgggaa gtcattgcgag 420  
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<210> 38698  
 <211> 379  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-019-Q1-K1-D5

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 ggaggggttg ggggtggagg tgtggtgagg tctaagggtgc tngtgggcgt tgtctcctct 240  
 gcgtgggtact ccgagtattc gtatgtatct cgtgtcgagt ttgatggtga tgtttaatga 300  
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<210> 38699  
 <211> 438  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-D6

<400> 38699  
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 tacgctttgt agcgtcggac cctcagta ggccgcggag ccggtatcct cgcatttgag 180  
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ggactagctc gtgtcgactt caagtaagtt aagggtgctgt ttaagagatg agatataaga 300  
gatctcgtgg atcatatagc ccttttagcta atacgctaag gataagcggg ttaagaactc 360  
tcattccgtc gggacacgtc acgggtgaat tgcggttcaa tactgcatgc cgtcgattca 420  
agtcgcgccc gacgcaca 438

<210> 38700  
<211> 324  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-D7

<400> 38700

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tacattaaac tttacgacta ggccctaacc tctcccctag ggagtgttaa cgccggattc 180  
tccccaaaaa tttgggctta cgaacacgac catattcgcc ggctacgtag cgccgtaagg 240  
tccggccacc taggaatcgt cgccacacta tgggcataat taactctagc ctaacacggg 300  
tccggtacat tagagtacga ctag 324

<210> 38701  
<211> 374  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-D8

<400> 38701

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attgcgtagg tcggagtata atcctggtaa gcctttgcgt gcgattgttg gtgagatgac 180  
tgtggcgatc gagggtgagt gatggcatca ttcggatgcg tcggaggtgc gcttgggttg 240  
tgtggctcgt cttactgata tggatcgtgt cgtggatccc gtgttgttgt ctgatcatgc 300  
ggaggttttg gttcctggcg gtagttaagg tagtgatgaa ttgatgtagt tggtttggac 360  
tcgtggtatc ggga 374

<210> 38702  
<211> 348  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-D9

<400> 38702

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gaacgcggtg tgccagtact acccgccgtg cccggaacac gcaccgaacc ttgggcgtca 180  
agaggcacac ggaccctggc ttgttcacca tctcctgca agacggcatg ggcagactgc 240  
aggtgcgcct tggcatcaac ttgcagagcg gccgatgctg agtagacatc gtgtcctggc 300  
ctggggcgct cattgtcaac atctgtgatc ttctgcaact cgtgacca 348

<210> 38703  
<211> 263  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-019-Q1-K1-E10

<400> 38703

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ccccaggtac ctggaccgct gccaccttaa cgcgtcggtg accgaagacg gccaggtgat 180  
gccggcggtg gtgccgggcc tcgtccccga cgtcgtactc gacaactaca ccaagtgcga 240  
gtacaaccgg ttccttaacg aca 263

<210> 38704  
<211> 471  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-E2

<400> 38704

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 ggtagttta gatataactt gttgcgtgta tgttgcgtac tttactattg ttgcgtagac 180  
 ggagcggctg tctcggtttt gagatactga gtttgagact gcgttatctc gtagagaacc 240  
 ggggaccgga accgcgggtcc atagcttaac cggttgcgga cccccggcg gaagaggagc 300  
 gatatagtaa gccctcctcg aactcagctc gtaaagggtac ttaagacca taatagaaag 360  
 tccggagaag aataagtaga cccattcgaa aacagaagac ccggttaaga agcattagcg 420  
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<210> 38705

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-019-Q1-K1-E3

<400> 38705

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 tctcctcaca gcgctattca aacctaactt atcggttgct gcccataat gctgcgatcg 180  
 ggaaaatttc ggtgccattt aatccaactg ttccgtagta tactttttcc ctgttagtcg 240  
 gtgcaacagt gaagaggttt gtattgactg tttcctttta tagccgtgta gttcgaacgg 300  
 tgaacgggat gtgtttcgca gtggtgtacc aagtgtggtg ggcgcgggcg ccatgtgtag 360  
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<210> 38706

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-019-Q1-K1-E4

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<223> Clone ID: LIB3069-019-Q1-K1-E5

<400> 38707

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 gaactgggga cgccgacatt aaggagatat tctcatttac ggaggacgtt ccaaacgac 240  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-E6

<400> 38708

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<210> 38709  
 <211> 386  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-D11

<400> 38709

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<210> 38710  
 <211> 381  
 <212> DNA  
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<223> Clone ID: LIB3069-019-Q1-K1-B5

<400> 38710

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<210> 38711  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-019-Q1-K1-B6  
  
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<210> 38712  
 <211> 376  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-019-Q1-K1-B7  
  
 <400> 38712

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<210> 38713  
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<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-019-Q1-K1-B8  
  
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 ggtcctatag gcaaactttc ccggccttta catccaccgg gttagtcggt tccattgtcc 240  
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<210> 38714  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-019-Q1-K1-C1  
  
 <400> 38714  
  
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<210> 38715  
 <211> 378  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
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<210> 38716  
 <211> 478  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-C11

<400> 38716

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 actagaactg ttatttgatg gtgagcacac ctccatccac ctcaccgggc acacatgcat 240  
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 cgccttccag cgtacctcag aatggtggtg aaaatgttga cgatggaggc aacaatacca 420  
 gcacaatccc agcaaacagc attaggacct caaggcatag atgatctcga cacgctgc 478

<210> 38717  
 <211> 470  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 38717

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 gggcttcgtc ctgcgtgcc aggctgccat ggccgcgacg tcccccttcg actgcgtcct 120  
 cctagacctc gacgacaccc tgtaccggg cgacaccggc atcggcgcgg cctgaggcg 180

caacatcgac gagttcctcc aggccaagct cggcgtgtcg gccgacgagg ccgncgccac 240  
 gcgcgccgag ctcttccgcg cgcacggcag ctccctcgcc gggctcatcg cgctcggcta 300  
 cgacgtgcac ccggacgagt accacagcta cgtgcacggc aggctaccgt acgacaggat 360  
 cgcgcgcgac ccgcagctgg cgcggctgct gcagagcatc ccgcagcgca aagtgtgttt 420  
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<210> 38718  
 <211> 473  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-C3

<400> 38718  
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 agatctagtg atcgtgaagg agggacaagg ggacggttgg gactggattg actaggtagg 180  
 atcgggagtt ggctgccgcg tggaagaagg tatttattgt tgttggttaag aaggacgaga 240  
 aggttgctaa tgttgtgtgt tgtgttggcg tggagactga cattacgaag aagcataatg 300  
 tcggcatgaa taaggtggta cttagtggca tactttctaa tattaagtgt tctgatgatg 360  
 atattgaaaa ttctgtttac gagtgagcct taagcgactc gaagaagaac tctacgtaag 420  
 taaagtctga caagaagtcg atataggtat aatccgtcta agacgacaac gag 473

<210> 38719  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-C4

<400> 38719  
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 tgttgtttgg catactcttt ttgtgttctc tttcgtcttc ggacctatt gactcggtag 180  
 gtcccatcgc tttgctacat ggcggtagtg ggagttgttt ttccttcggt cttatagtct 240

acgttacgta cggttgactt accttttctag actgggaccg ttgtagatac gttgccgtcc 300  
 ttttgccagt cctcttttccg ctatattttt ctgtcctgcc tcgtgcagcc ctggggcccg 360  
 atattgtccg ctcaactttgc cttcacagtc cccagggccc tgagtctaaa tcttgtgttg 420  
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 gaaaaa 486

<210> 38720  
 <211> 433  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-C5

<400> 38720

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 cttggggcct ggccctgcgg gcgagtggac tgagacggtg gtgctggacg ccgagcattg 180  
 tcgtcctgct ggtggttctg ttcgggttat ggatgattat ctttcttata atgttcctag 240  
 tattcatggt gaggtctctg agcttaagac tacttctgac tgggagatgt agaggctttg 300  
 tggtcctggt cctgctattc ctcttatgga ggaggtgacg tggaatgtta ctgagggtac 360  
 gaatggtaag gagtcggatg gttgtaatac tattgctaata gaggttttagc tttgtgggtg 420  
 ttgcggaggt ggt 433

<210> 38721  
 <211> 453  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-C6

<400> 38721

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 gcgctcgtct cgtggtagta ggcgaagaag ggtggtggtg gaggtggagg tggaggtagc 180  
 gccagtggaa gtggaggtgg taattcgaac tttcgggagc gtctgtttta gcgtgggctg 240

tggcgtctta agatgtagca taggaagggt cgttctattc cacgcaataa gcgtcgtggt 300  
aagcgttctc gtgcgttatt ggggcctcat ggtaataagg gtgttcgttt tcgtcataat 360  
aatcggaaaa ttaaggaagg agggtttaag cgttttcaga agacttattg tagtctttgc 420  
ttgttaccgc ttttctcctc ttgaactcgg aat 453

<210> 38722  
<211> 486  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-C7

<400> 38722

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cgatccgcat ccacaagaag aatggaaaat tcgtcgttac ctaacacgga attggcgtaa 180  
ccgtcggccc ccctagcgag gacagtgcc aaccaggcga ctcgacgcg aacgactagg 240  
aaccaccga agtcataaag gagttagggt ccattcctac ggccgtaaaa cccgacggta 300  
cctccgggtc aggtccctag gaaacactcg ccgggaacgt aatattcgcg cggcacaata 360  
cggcaaaata aggtcttact agcgatttcg cccctctcac tcggcccaat tgatacgctg 420  
gcgaaggaga aggcggcgaa accgcgcccg gcggaacgga cctcagctat cataagggcg 480  
actata 486

<210> 38723  
<211> 445  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-C8

<400> 38723

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gtttcttagt gacgggcttg ctggtttcta atgataatag tgtcgttggt ggtgctgctt 180  
ctttgacggt cggtgtcggg tggtcgtcga cttcggttcg tcgtctgtct gctgtctctc 240



atcattctgg tgtgcgacga ctgcgcgagg atgagatggt gtcttttgtc gttgtccgtc 300  
gccgccgggg cgctcctect tccagtttcc cctccccctct tctcagcggg agcggtaggt 360  
aagagagaat tccgcgacga cgggtgtatc gtatcgttcc ttattggcgg aggagagtcg 420  
ggtaacgcga ggttttcgca aactc 445

<210> 38724  
<211> 268  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-019-Q1-K1-C9

<400> 38724

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attacacttc agggacaata ttctggaagc tggatatgcaa aggctgacaa gttcgtgttc 120  
agttataaat cacatggaac ctattggtga ccttaatcat gtatctgttc tacgcgagga 180  
catgacatac atgcatcata gaaaatttca cgccatgatt tcaaagttag cttaaaacac 240  
acaactgtat tcagcgca tcaatcat 268

<210> 38725  
<211> 459  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-019-Q1-K1-B4

<400> 38725

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gatcaggcct cggcccgtag ataccgcggc tcgcactcgg gcttctacac cgtctcgct 180  
atcaccaagg tcgcctaacg cggctgaacc gactcaaaaa ccgtcttaca cgacattaca 240  
tagtcaaagg ccgggttact acgggtccgat aagaaacgcc tagaaccggg attattcgcg 300  
cacttagtac tagtctacct agccaggact ttagctcctg attcatcatt ctagacatag 360  
tcggaggtag cctcccgggg aaccgggatc gtgtccggcg agtctttctt ccacccca 420

ctatgagtag tctgtccact angaagtgag ctaaaaagtc

459

<210> 38726

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-019-Q1-K1-A12

<400> 38726

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ggataccatg tgggagaccc taaccctaata gaggggggtga gtgatgtatt aatagactgt 120

gttaggtggg cctggcccat taccggcgtg agatagtaaa tacacggcgt agaaccctaa 180

accggtacat taacatcacc cactgtgtaa tctctttgac gaatagcaac acggttaagta 240

gagcgatcaa tacgataatg gcgatcacga agagaagtcc acatctgatg agactaataa 300

aagtgaacaa tcttggttagc acattgatcc ttcacactag cagcaagaac aaaacttgca 360

cgagcatnct catcgaacca caacttgtaa gcatcgaatt gagactcatg atgccatggg 420

atgatcaaaa tcagcaa 437

<210> 38727

<211> 444

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-019-Q1-K1-A2

<400> 38727

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atccgcatga tgcattgttaa cgtgattcgc gcagtcgca gcagctcaac gccgtagcga 120

tacgcaacgg tgtatttttg cttcatcaat agacgtccat cggagaccgt tacagtcgac 180

tccgcaaccc gccacaggt agcacgaaca caccacggc agtccgaact caccgcgga 240

ccaaaaaaaa aaaaaaaaaa aaaaaaggt ggttgtctca gaggacttaa gtccatgcat 300

gtgcgtacgt gatgctacag tctcctcaca gcgctattca aacctaact atcggttgct 360

gccccataat gctgcgatcg ggaaaatttc ggtgccattt aatccaactg ttccgtagta 420

tacnttttcc ctgttagtcg gtgc 444

<210> 38728  
<211> 450  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-A4

<400> 38728

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gccggcgccct ccgggtctca taaggagac cggcttctct cggggctgct agaccttcca 120  
cattacgacg aagcccgctc ttcccgagat tactgccgag tccactcata agtacgtcgc 180  
gttcgccttg aagctcgagc gtagtaagat catttagccg ggcaccagtc ccgtcgggcg 240  
ccatgccgtt ggcgtcctc gcgtcaccga cctctatttg gtcgataatt ccgcgctccc 300  
ttcgaataac gttaaggag tcatagcggg agacgtcgc aagaagtccg gctctcgggg 360  
ctctcctatc agaggatcct tctcctgcac tgctacgacc ggcatttcca tcggcgctcta 420  
gcggggaacc catgacgtac ctaaagcgac 450

<210> 38729  
<211> 405  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-A5

<400> 38729

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gcctggtaat gggatgata ctccgtcctg tcttgattca tcatgaccat tttaaagca 120  
agcagtatta atgaatctta actctccaaa gtccatacag atgaatagtg agaataagacg 180  
taaaacacta cagggggccac gtaaaatgac cgcaggagat cagcatgcgt acccgacaaa 240  
ctcagcacag taaaccctt cctatatgag gccgaaccag gagacaacat atgcaacata 300  
ctgggtcaaag gccgtatga ttagctataa tttttccacg ggacgttgac ggatatgcat 360  
ttcgagtaaa tgtaaactgg tagcaaatta gttgactcat atacg 405

<210> 38730  
<211> 365  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-A6

<400> 38730

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ccatatgcgg atatgaatga gaggcgagta cggtaatagg tgatcgattc ggtacggact 120  
tgactcatca tgacccttgt atacctagta ctattaatgt atcgtaacat cccaaagcct 180  
ctacccatca atagtgagaa tagacgtatc aacacaacat ccgccacgat gactaatctc 240  
aggagatcgg atcgttaccc gacgcaatca gctcaatata tcgccaccca tatgatgatc 300  
atccaggaaa caccatatac gacatactta ccatagaccg ctataactag gcataatttt 360  
tccac 365

<210> 38731  
<211> 467  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-A7

<400> 38731

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atcgcttcct acaagtctgg cggttagcct tattcggtgc tgactactct cgaaggcgca 180  
tggtgttgca atacacgttt actcgctcta ctccacgaaa ggagaccgt tataaggaat 240  
catacgattt agagttcccg gggtttccta acgctcgcca gtggcggtac taacgcttta 300  
gcgacgtaga ttttgtctcg cgtcaacgtc ttcgtcgaga aaggaggtaa gaatcctacg 360  
accgacccta cgacgggtgg cgcctagtc gtcggcctaa agatcgctcg cgtctttact 420  
gagtgcgcga agtcgtccac ctagaattaa gacgagacga ccaagct 467

<210> 38732  
<211> 442  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-A8

<400> 38732

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caaataagggt gaagaaaggc ttcgggatac taattcagga cggcctccag agttagcggc 180  
ctgcggcgat cattttcctc ttacgagact accggtcagg gaatgatcat ttcttcctaa 240  
ggatgagtag aaggagaagt ctgttggcct tcacaatacg ccggggccaa atcatcatat 300  
tctatggcct cttaaaaaata ctgacactct attaaatcat ctattcgcgt ctaatatcga 360  
tgatgttcat gttagctaag aagccaatgg gttcgatggg aagtttaccg gcttcttcac 420  
gggaaactta cggactcata cg 442

<210> 38733

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-A9

<400> 38733

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aacattctga gccaatctag agggcgggcaa cagagcagct taattccatg atggatcttg 180  
gaagcgatgt tcaagttcgt gctgctggag gtctcctagc aatattagac aatgagagac 240  
ttcttgacac cattgagcag atggaagggt gagcatccat tgcgatcgat tctgtggtac 300  
agatctcatt ttatcctctg atggagataa attgaacaca ctgatgtgct gagatttaat 360  
tatatcttct gtcattgggt gggcttatgg cccagatgg cagtatgcca gatcagatcc 420  
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<210> 38734

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-B1

<400> 38734

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cgtctcgcca cccgaccgcc tcaaattgtac ggccccgccc ccgcgacgac gcgtaggcct 240

tgactcgccc tggccgaccg acgagccgat gtactggtct gaaatgaggt cgtacggccc 300

ccgcgttcgg aggcctctga ccagtgcgcc caaggaaatc gggcgttata acccgccgtc 360

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ct 422

<210> 38735

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-019-Q1-K1-B10

<400> 38735

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gttatgaaaa tcacataatg cactgacaaa atcctatttt tcttaccxaa ctagcactat 180

actcgttgat gatgttggtc aggtgcaaca atgctgttca atttcaagcc ggccatagat 240

aacatggcgg ttgatctgca gaaggggcct aaatcatcta ttatgatcca cgaaattctt 300

gcaccttagc aggcctcggc aatgtccaag ttacacgctt tgcacacact gaccatgcat 360

gccaacttc cctcaacaaa ggcttgattc aaaatgacac aaatccttca atgattcaac 420

gtcctcaat 429

<210> 38736

<211> 474

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-019-Q1-K1-B11

<400> 38736

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tggttgcaac ggtcatggcg acgtcgtctc gtcgggtgcc cttgctgctg ctgtgcctgg 180  
gcgtgctggt gtctgtctcc ttccggcgcg gcagcttgga ccaggagctg gacatcacgt 240  
ggggcgacgg gcggggcaag gtccttgaca acgggcgggt gctgacgctg tcgctggacc 300  
gcacgtccgg ctccgggttc cagtcccggc acgagtacct gttcggcaag atcgacatgc 360  
agctgcgggt ggtgcggggc aactccgncg gcaccgtcac cgnctactac ctgtcgtcgc 420  
agggcggcgc gcacgacgag atcgacttcg agttcctggg caacgtgtcc ggcg 474

<210> 38737

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-B12

<400> 38737

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atatgcaaaa caaacataca cacctagaca atactttcat tacataactca tgacaatctc 180  
taaaacaact caccaacttc ttgcacccat atagcatgga tctcgcgcag gccataacac 240  
tcaatcgaag acccctctac gaacgtcggc taccaataac tatctccaac ccaacttta 300  
ccatcaattc atatccccca tatactctac caaccattac acataatcaa tgatcaacat 360  
ctaattgaac attcatccat tctactatcc ctgcaata 398

<210> 38738

<211> 487

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-B2

<400> 38738

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 agtcctatct tccttcaagt gtaaattttc gatcgaagaa gagaccgagg tcaccacgtc 240  
 ggggggtctt acccgacact attctacacg aaccggaaac ctcaggaata ctaacaagac 300  
 cgcacatttg aatccaccgt tcccgattct cgaaagagcg ccaccgaagt tacgctgaca 360  
 cggaagcgcg cgccccccc aacctagctc ggaagccggt cgccgagata cttaccctta 420  
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 agtacga 487

<210> 38739  
 <211> 328  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-019-Q1-K1-B3  
 <400> 38739

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 cctcgtagcg attcgcggtg ccgaagtatt ataagtattc attgcccgtc cccgcaggag 180  
 tatatacctc gggtttacctc cccgccgtag actggcgtag cgacctccta ccgggaaccc 240  
 tgtcgaaaca cccgatccgt atacacctgg cgaaatccaa tcccctaacg atagcagggc 300  
 aaaccaacgg gtaacctcc cgcccttc 328

<210> 38740  
 <211> 418  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 38740

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ttgaagaaga acaagtgaca atgtagcacc atacgacact aagctgaatg gctgatattg 180  
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 attgtgctag gataggccat agatgtattg tcgctcaata ttgtttgtac tgcactaggc 300  
 tgtgtgcata ttcttttttg ataatatatg tttgggacat tgaatTTTTT atttgcaatt 360  
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<210> 38741  
 <211> 388  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-018-Q1-K1-G1

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 ttgcactcct tcgacgcac ctaatcagag gaagaacgcc ctggttgccc agagggtacg 180  
 atccctgcac ggagaagtac tccacgaagt actacaactt acctgagggtg cagagagctc 240  
 tacacgcaa tgtcaccgga ataccgtatc cctgggtaac ctgcagtgc ccagtgtatg 300  
 atttttggaa agattcgccg aggtccatgc ttctatcta ccgtgaactc atcgncgagg 360  
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<210> 38742  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-G2

<400> 38742  
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 tcatagtcga ttcaatggat ggcacctaat actcaattac actgaggggc agacttacia 180  
 cgttaca 187

<210> 38743  
 <211> 388  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-018-Q1-K1-G3

<400> 38743

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acagcacacg tcatttgccc ggtgacacgg caacgctggc agttggagggc attgacggcg 120
tgctccgctg tatatgccaa agaactgggtg acatcattcg cagtcttggtc gttgacgcag 180
atctcccagc agaagccaca tctagatccc ggcagcaaat agagaagaaa cgtgttcgaa 240
ggattgaccc tgatgcacag ttggacggta tcccagggcg tctgcgcctt caaattacca 300
gcctatcggg tgggatgaag aagatngtga ccacgcatgg tgaaactacn attaggggtt 360
ggaagtctcg catgaaaagt tcgtaaaa 388
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<210> 38744  
 <211> 425  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-G4

<400> 38744

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taccggcatt gcgtcggcgc agcggctgctg tcatcagccg cggggcgaggc cggggggggc 120
ctggcagcgg cggccgtgga gcagttcgcc ggttcctccc tgctgtcggt ggttcacaaa 180
tttttgaatc atcatttcag atactcaacc agcatttttc aaaagattgg tttctcgtct 240
gtttcaccac aacaaagtga tgatgatgtt aatgagctga aagaccacga aagggcctta 300
gatggatcaa gtgaagattg tccatctgga agtattgaag gccttgatct gtcgagagat 360
gatttgggtg agctagttcg tgagaaggat ggattgttga agtccaaaga tgggtgaaatc 420
aaaga 425
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<210> 38745  
 <211> 408  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-G6

<400> 38745

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cccaagatga gcaggtgaag aagaagcggg gtaggccaag gaagtataag cctgatgggg 120

cggtgactct cgggttatca ccctcttcat cattaacacc tcaactcgcc agcttgggga 180

tgggaacat gattagtgt ccaggttctg gatttgggtc ggagggatca ggggcttcag 240

gcttgggtgc gccatcagag aagcgtggca gggggcggcc acctggctct ggaaagatgc 300

aacagttggc ttcgcttgga aagtggtttc taggctctgt tggaactggg tttactcctc 360

atgtgattat tattcagcca ggagaggacg tttgctgcca agaataat 408

<210> 38746

<211> 355

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-018-Q1-K1-G7

<400> 38746

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gtggtcacgc tctgtcttgt cctcccgcgc cgtcgtctgt gcgctgcttt gcctgctgggt 180

ggctcacggc agcgatggaa ccaggcacia cagcaacaat ggcggtggta gtggtagttc 240

cagcagcagc aagagccaca agcaaggcgg agggggacga gcccatgccg cgccgacgac 300

accgtctnec tcttcgtatc cgtctccggc ggctggcaac aacagcagca gcgac 355

<210> 38747

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-G8

<400> 38747

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tcctccggga gatgggcact acacggcaag acagccctcg tcaccggcgg cacccgcggc 120  
 atcgggcgtg cggtagtgga ggagctggcg gcgctggggg cggccgtgca cacatgctcc 180  
 cggaaggcgg aggagctcgg cgagcgcac aaggagtggg aggccagggg attcagcgtt 240  
 accgggtccg tctgcgacct ctccgagagg gaccagcggg agcggttgct ccgcgaggtt 300  
 gccgaccgct tcggcggcaa gctcaacatc ctcgtaaaca atg 343

<210> 38748  
 <211> 424  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-H1

<400> 38748  
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 agcaccactt cgaatcgaag gccgacgctg gggcgtccaa gacctaccg cagcaggctg 180  
 gcaccgtccg taagaacggc ttcacgtcga tcaagaaccg tccctgcaag gttgtggagg 240  
 tttctacctc caagactggg aagcatggcc acgccaaatg ccactttgtc gccatagaca 300  
 tattcaatgg gaaaaagctt gaagatattg ttccttcac acacaactgt gacattccgc 360  
 atgtgaaccg tactgagtat cagctgattg atatttctga ggatgggatt gtgagccttc 420  
 ttac 424

<210> 38749  
 <211> 417  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-018-Q1-K1-H2

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 atcaagatga gccgtggcgg tagcgcgggt ggtggtcaaa gttctctggg ttacctcttt 180

ggaagcgggtg agccccccaa accagcagtg gcaccagctg taagtgtctc acctgctgct 240  
gcaggtgctc cacctgctga gaaaccacct gctgcaaagc ctgatggcac cagtcagatt 300  
gctgctgggg ttaccagcca aaccaataac taccacaggg ccgacgggtca gaacaccgga 360  
aacttcctta cggaccgtnc ttcgaccaag gtccacgctt gctcctggcg gtggctc 417

<210> 38750

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-H3

<400> 38750

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ccgaacagcg tgaagacggt gtccatcggg cagatcctga gcatgaagct ggaccgcgag 180  
ctcgagatga cgaggacgac cacgacgagc gcgaggaaga agaaggtctc tctcgggcag 240  
atcctgagcc agaagtaaga gatgttctcc ccgctgcgga tcgaccacga ctgtgcctcg 300  
cacaggca 308

<210> 38751

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-H4

<400> 38751

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atgccggaaa atcaacaagg aaactaataa tatgggagat caggttggcc cagttaaagt 120  
cgtgcctttg tactccacac tgccccagc catgcagcag aagatttttg aacctgtctc 180  
tgccccattg aaggaaggag gtcctcctgg aaggaaaatt gttgtgtcca ccaacattgc 240  
tgaaacatcc ttaactatag atggcatagt ttatgtgata gaccgggggt tttccaaaca 300  
gaaagtttac aacccaagaa taagggtgga atcccttctg gtgtcaccga tttctaaggc 360  
aagtgtcat cagagagctg gtcgtgctgg acgaacacaa acccggaag tgttttaggc 420

tatacacg

428

<210> 38752  
<211> 261  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-H5

<400> 38752

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ccccctgcc caacagcttg aataccgtgt ccatacttcc gattccgagc attaagcttg 120  
acccccagct tcagatgacc aggactacca cgtccagcgc gaggaataat aatggctctc 180  
tcgggcttat cctgtgcccc aaataccaga tggtcttccc gctttggatc caccactact 240  
gtgcctctta cacgccgttt c 261

<210> 38753  
<211> 227  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-H6

<400> 38753

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ttgttagttg gagccgaaga tacagttgtt tttggttgcy actttgctag atgtctctct 120  
atatactgcy actgatatcc cgtgtacttt tgaagtgatg cgtatattga catctggaat 180  
aacaatgcct ttcaatttca ttatctcaat aatggccctt cctgtgc 227

<210> 38754  
<211> 246  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-H7

<400> 38754

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tctcgatttg gccaaacttc tggcattcaa cttttcaacc aggttccaac ttttttgggg 120

ggcaaaggac aaggcccaat atatcccggt tcaatatttc aaaaatggaa caattgggaa 180  
 agggataagc ttttgtttgt actttaaggc tttctgatgg ttacttgaaa agagctttca 240  
 cattca 246

<210> 38755  
 <211> 419  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-H8

<400> 38755

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 ccgcgacaat attgataata tacagattgt attcagggaa gactttggta ctgaagggcg 120  
 tggaggatat tttgaccaat atggaatcat tcgtgatatc attcagaatc atttactgca 180  
 ggtttttgtgt ttggttgcaa tggaaaagcc tgtctccctt aagcctgagc acatcagaga 240  
 tgagaaagtc aaggttctgc aatctgtgaa ccctattatg cctgaagagg tagtccttgg 300  
 gcaatacgat ggctacaagg atgaccctac agtgccagat gactcgaata ccccaacttt 360  
 tgcattctgct gttcttcggg tacacaatga aaagatgcgg aaggggtgttc ctttcattc 419

<210> 38756  
 <211> 436  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-A1

<400> 38756

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 cgacctccca ccccatggcg gccgtcgccg gttggcgctcc gaatagatat tgctatgtca 120  
 aaatgcctcc gatacccgat acacatagtt ttgatcaaga ggaactccgt agaatcggac 180  
 ggtaagtga gccccggaca ctccaagccc gccctgcttt agcccgaaga gccctcagct 240  
 aaatcagggg acacgtaccg caggtagaac gtaggctata ctccccccc cggggcgggc 300  
 aggcaggaaa gcgtcgctcc gtccatcgcg cggtcgcaa agttagaacg caagacatac 360  
 ggggtggtagt ccatgccagg acagaccgag ttagctccat tacctcccc gaaggaaacg 420

taccggtact cgacgc

436

<210> 38757  
<211> 436  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-018-Q1-K1-F8

<400> 38757

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caagcggacc gcaccggagg ggcgcaacgg cgcgggcggc cccaagcgcg cgagagaatc 180  
ggagacaact ggtgtaggaa gcaaatccaa gccgtgcacc aaatttttca gactgcggg 240  
ttgccccctt ggtgcaagtt gccattttct ccataacttc ccgggtggct accaggccgt 300  
ttcaaagatg accaacttgg gtggaccgcc tgttcgggt ccaccaggaa gaatgcctat 360  
gggacctggt ggtcctgatg ggccaccttc acctgctgtg aagactcgca tgtgtaacaa 420  
ggtttnaacc aacct 436

<210> 38758  
<211> 394  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-018-Q1-K1-D7

<400> 38758

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ccaagtctga gggggttgag ttactgtga aagatggcta cttttgtcct gccctggcca 120  
aagctgtcaa aaccatgaaa aaggcagaga aggtgctcct tacagtaaag ccacaatatg 180  
gatttggtga gaagggtaga ccagcagctg gagaggaagg tgctgtgccg ccaaagtctt 240  
cgctgctcat tgaccttgag ttgatttcat ggaagactgt cacagaaatt ggggatgata 300  
agaaaatcct taagaaggtt ctcaaggagg gagaaggtta tgagcgtgcc aacgaggggtg 360  
cttgtgttga agtcaaaatt atcggaaaag cttc 394



<210> 38759  
 <211> 204  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-018-Q1-K1-D8  
  
 <400> 38759  
  
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 gtaactttca taggggtgcg ggcacattca aagactgcta cctcctctat cgctcttagc 120  
 taacactgac tgaaccagtc caacttctca taatgctact cctctcatgg aatccacact 180  
 atgaatatgc tgagatagct atac 204

<210> 38760  
 <211> 351  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-018-Q1-K1-E1  
  
 <400> 38760  
  
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 caacggtggg cccatccttc cgccgccac cgagatgggc cgcgaggagg gattcctgct 180  
 ccgcgagtgg cgccgacaaa atgctattca ccttgaggaa aaagagaaga aggagaagga 240  
 gctgaggagc caaatcatcg ttgatgctga agagtttaag aaagcttttg ttgagaagag 300  
 aaagctcaat gctgagacaa gcaagggccaa aaaccgtgac agggagaagc t 351

<210> 38761  
 <211> 391  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-018-Q1-K1-E2  
  
 <400> 38761  
  
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 aagatccttt tgaccaggat gactgggttc actatgctaa gatgactgaa gaaattggag 120

agcaagtgca gattgttggg gatgaccttc tgcgcaccaa cccactagg gttgctaagg 180  
ctatcaagga gaaatcatgc aatgcccttc tgctcaaggg taaccaaatac ggatctgtga 240  
ctgagagtat tgaggctgtg aagatgtcaa aacgtgcggg ctgggggtgtg atgactagtc 300  
ataggagtgg tgagactgag gacactttca ttgctgatct ggcagttggg ttgtccacgg 360  
gtcagattaa gactggagca ccctgcagat c 391

<210> 38762  
<211> 342  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-E3

<400> 38762

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gtcggtcggg tgctggggct cgcggctcct ctcttcctgg ggcttgggaag ggacggtgaa 180  
ggatgcatgc cgcgaccagg agcgtctctt gcacggcgcc gcagccgtcc gtgctcatcc 240  
gggtgcggcgg tgggtgcgctg tccgcttcgc ccggcggcct cggaggaggg ggatgcaagg 300  
tccgggtcgt cgcctgtctg cgggtgctgcg cacaggagaa gc 342

<210> 38763  
<211> 423  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-018-Q1-K1-E4

<400> 38763

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cggcgcagca ggcgctcatc gacgctgacc tgcggaacct cgccgtcgcc ggcgcgaaagc 180  
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acatgctgac agctctcttg gttccttaca ttttcttcac tctgcctaata gtgctgcttt 360

ctatgatcag agganagggtg ggggaaatgg attgccgatt atttgcttgg tattctgcga 420  
cta 423

<210> 38764  
<211> 320  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-018-Q1-K1-E5  
  
<400> 38764

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ggagttgagc aggatgggtca aggttactca tgcgatgaag aggctgtgaa aaagccagtt 120  
tggatggata gccacgatgc ccaaggttca gatatctctg ctgccactat tgcttctgtg 180  
ggagatggct ctaatggttt aagcatgtca cagcctaata ccaactgaacc tactggttgt 240  
cctcttacca atgggggttat agacaaagac atcagctctt cactagatga aataagatct 300  
gagaagactg acgatatttt 320

<210> 38765  
<211> 434  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-018-Q1-K1-E7  
  
<400> 38765

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aactgcgcca ccgtgccgca accgccggcg tcgacaggga agctcatcac gatcctgagc 180  
atcgatggcg gcggcattcg cggccttata ccggcgacca tcattgcgta cctcgaggcc 240  
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gggacgagca ccggcgccct gctcgcgtcg atgctggcgg cgccggacga gaacaaccgg 360  
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nccccccaca gaaa 434

<210> 38766  
 <211> 393  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-E8

<400> 38766

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cgtcgagggg aagcatggcg gcaagctccc caccaacttc cgcaagcagc tcaactgtgca 180
gctgaagaag ctgctgcccg ccggcaagct gacgaggggtg aagaactcct tcaagctgcc 240
ggccaccgac gccaagccca aggccgtcaa gcccaaggca cccaaggccg cgcccaagcc 300
caagccctcg ccgaaggcga aggcccaagac cgctgcgaag cccaaggcgg cgtcgcccaa 360
accaaggcc aaggccaagg cccaagcctg tcg 393
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<210> 38767  
 <211> 390  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-018-Q1-K1-F1

<400> 38767

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tgtgcgcttt tcgcctttct gatgttagac accacaagt acaagtccgc acacaacaag 180
atctctctc cagttatccc tgtctggta acatgggccc tcggctacgt agtcgcgaag 240
ctttctttg cggtgggtga gatgtcgatc gacaccataa tcctctcgtt ctgccaggac 300
gccgaggagc accaggggaa cgcgcagtat gcgccncag ctctgatgga aactctggac 360
gaacaaggcg aactgcagag actaactcaa 390
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<210> 38768  
 <211> 418  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-F2

<400> 38768

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tttgagcaa gtaaatgaaa aaacaattgg aaacgctatt gaatggatga acttaaactt 180  
tgtegcctcag ggtggcacta acatcatgca tcctttgagt gaggcaatga ctttgctgtc 240  
aacttctcac gatgcgcttc cacaaatcta ttttggtact gatgggtcag ttgatgatga 300  
acggaatatc tgccatacat tgaaaactca acttattaaa agtggatcta agtctcctcg 360  
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<210> 38769

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-F4

<400> 38769

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accgctggac cttcgatgat gtccaggtga acgacatctc gctgaacgac tacctcgctg 180  
tgaacgcgac gaagcacgcg atgtacctgc cgcacaccgc ggggcgctac tccaagaagc 240  
ggttccgcaa ggcgcagtgc ccgatcgttg agcgccttac aaactccctc atgatgcacg 300  
ggcgcaacaa cggcaagaag gtcattggtg tccgcatcat caagcatacc ctggagatca 360  
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<210> 38770

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-F5

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cgagcagcag aatttgctga gggccgctgg ttgctgcgag aggtccgggc cttcgtggga 180  
tcttgaaaat tgaatgttct aatggagtcc aaggggtggca agaagaagtc tagcagtagt 240  
cgttcctccc tgatgtacga agctccccctt ggctacagca tcgaggatat ccgccctgca 300  
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<213> Zea mays  
<223> Clone ID: LIB3069-018-Q1-K1-F6  
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tcttcggcgc tggcgcgcgc ctgcgtcatcc tactactacc cgtccctgc cgccgcgtcg 240  
tccacgcgcg cgcagtacga cccctattcg gggtaccagc actacagtca cccggaggga 300  
ggaggctcgg cgggggctgg cctggtgggc tgctacagca ccgtcggcga ggcgttgacg 360  
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<223> Clone ID: LIB3069-018-Q1-K1-F7  
<400> 38772

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acgcatgtca gcacgtcctt ggactacatg ctagtaggat caaaggctcg ctatggtgtt 180  
ccaaaacatg gaaagaagaa gaagtttatg gaagtaagca aacattatga tgcaggccaa 240

tctgacaaga tttctgaggg caattcatct aacagattcg tgaaacatct gatgccacaa 300  
 ttgccaaaggc cacgtgaaaa tgcttccaaa gttgacccta ttagaggaaa gaaagtaggt 360  
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<210> 38773

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-D6

<400> 38773

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 ccagagacgg cggatgtcgc gccgacggca ggagggacct ataatgtact gcagccgcac 180  
 tatttttgag gatgctactc ctgaactggg tagagatttc ttctgggatg gtgattttcg 240  
 tctaaagtgg gatcccatgc ttgcatattg caaatctttg gatgagttcc ctcagaatgg 300  
 agcaacaatt gtccactgga taaaaaagtt cccgttcttt tgcagtgacc gtgaatacat 360  
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<210> 38774

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-B2

<400> 38774

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 tctgatccct atgtcatatc atgattaaac ataaataatg gtaacctaat tacgatcact 180  
 tgatgtatgt tagataccta tagatgcctt tgtggccttag tagctgggca ttgatgtggg 240  
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<210> 38775  
 <211> 373  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-018-Q1-K1-B3

<400> 38775

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gaccaatggc tcgtactaag caaactgctc gcaagtccac tggagggaag gctcctagga 180
agcaacttgc caccaaggct gtcgtaagt ctgcaccac aactggggga gtaaagaagc 240
ctcatcgtaa ccgccctgga actgttgctc ttogtgaaat ccgcaagtat cagaagagca 300
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tcaagactga tct 373
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<210> 38776  
 <211> 376  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-B4

<400> 38776

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aacctgctgc tggtgctgct ccagtgcctg agaccaaata agacgccgag cctgctgctg 180
ttgctgctcc agcgctgag accaaatcag acgctgagcc tgctgctgct gctgctccag 240
ctcctgagac caaatcagta gccgagcctg ctgctgttgc tgctccagcg cctgagacca 300
aatcagatgc cgagcctgct gctgttgctg ctccagtgcc tgagacgaaa ttagatgctg 360
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<210> 38777  
 <211> 435  
 <212> DNA  
 <213> Zea mays



<223> unsure at all n locations  
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gagtagcaag taggcactat aggcactagg aagtagctaa agcagtcata accatggggtt 180  
cgctgccgcc ggtggacggg cagagacgcc cccacacgt tgtgatgac ccgtaccggg 240  
cgcagggcca catcacgccg atgctgcagt ttgccaagct cctccatact cgcgggttcc 300  
acgtcacctt cgtcaacaac gagttcaatc atcgacgcca cctgcgtgcg cgagggccca 360  
acgcgctcga cggcacggat gggtttcgct tcgccgncat cgacgacggt ctcccgtctt 420  
ttgaaagcgg acgcc 435

<210> 38778  
<211> 335  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-B6

<400> 38778

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aatgatctaa agcatgcata accgtgtgat agctgatgac agtcgacggg tggtgacgtt 180  
gctgatacat cgtgatgaac cagttcccgg cgcattggcca catcacgccg atgctgcagt 240  
taggcaagca cgtcagtcctc tgagcctgct ggtgatcttg gtccacagcg agataaatta 300  
tcgactgcac ctgctggtgc tagggctgaa cgagc 335

<210> 38779  
<211> 244  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-B7

<400> 38779

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cataaccatt ggcaagctga ctgcagggtga cgctcataga caccaactag acatcaagac 180  
tattccatac cctgcacccg gacccatcac tccaatgctg cctcatgcc agetttcttca 240  
tact 244

<210> 38780  
<211> 435  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-018-Q1-K1-B8  
<400> 38780

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ggtttaacaa agggttgctt cctaccttaa accttaacce tatgatcttt ctttttgccc 180  
tggaaaaaaa atatggaggg ggttaaagcc caaaaatggc ggacttgta cagactatgc 240  
tgacttctgt tttaagacct acggcgatcg cgtaaagcac tggtttacat tcaatgagcc 300  
aaggatagta gcgctacttg gctatgacac agggtaaat cctcctcaa ggtgcaccag 360  
atgcgctgct ggtgggaatt cagcaaccga accttacata gttgctcata attttctctt 420  
ttggggtcac atgct 435

<210> 38781  
<211> 216  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-018-Q1-K1-C1  
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agggactcga ccagccgag gcggccgcta ccggcaatgc gctagcttcc gtacccaaac 180  
gtggggccat actactgctt ctgcacctgc cgtcga 216

<210> 38782  
<211> 417  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-C2

<400> 38782

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gatgatctga gtgggcagca gagtccacag atgtctcgtg taagctccta caccggactc 180  
agcagtacta gtccttttgg tccacttcgt cgtgggttcat ggtgcactcc gccaaaggctg 240  
tttcttgagg atcagtttga tgttattcca tcggaagctg cttcttcgca taattctgct 300  
acgaagagga aagaagacca ggggaagagg aagaagggct caagggccgt gaaaataagc 360  
ccatgggcat tagctcgtct taacgctgaa gaagtttcga gggttgctgc aaaagca 417

<210> 38783  
<211> 170  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-C3

<400> 38783

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gagcagatgt tgtagaacag gcttttgtat tttgctgccg gttacatgtt 170

<210> 38784  
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<212> DNA  
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<223> Clone ID: LIB3069-018-Q1-K1-C4

<400> 38784

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agcatcatca cccggcccat gttccagagc atgctgagcc accgcggcga cagcgggtgc 180

cagggcgccct tctacaccta cgacgccttc atcgaggccg ccagcaagtt ccccggttc 240  
ggcaccaccg gcgacgagca gacgcgcagg cgggagctcg ccgccttctt cggccagacg 300  
tcccacgaaa ccaccggtgg atgggcgact gctccggatg gaccgtttgc ctggggatac 360  
tgccgggtga aggaacagaa acagacggac ccaccctact atggacgagg acccata 417

<210> 38785

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-C6

<400> 38785

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attgtataca atgcagtttt gaatgcttgt gtgcaacaaa agcaatggga aggggcattt 180  
tgggtactgc aacagttgaa agagaagaac atttgtccaa caaattcaac atatggtctt 240  
gttatggagg taatgcttgt ctgtggaaag tacaatttgg tttatgagtt cttcaataag 300  
gtggataaat catcaatacc tgggtgctctg aactataaag ttcttggtaa tgcactttgg 360  
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<210> 38786

<211> 392

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-018-Q1-K1-C7

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tctgtgaaca ggttaccatt agcctggaac tgcgacaaaa taagaataat cgaaaccaat 180  
aaagcctagc gttttgttgt tctactcggc cattttctgt tcctaaactt gtaattttgc 240  
tggaatattg tacagggcat ctgatgcaag gtgcaaaaac tgggtgttgg tctgcggttg 300

ctttcaaaga gttgtgtgcc ggttgcttgc acatcttta ctctgggtct tgaaagcana 360  
tcagaagtat ttatggttta aggaaatatg ca 392

<210> 38787  
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<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-018-Q1-K1-C8  
  
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cactggctgt aggtgcattc ttgagcgcaa cagctcaaga tatccgcacc atgattattg 240  
gtcggttgct tgctggaatc gggattggga tctgatctgc acttgtaacc ctttacatat 300  
ctgagatatc accaactgaa attctgggaa cacttggttc tgttaatcaa ctctttatct 360  
gcattggaat tcttgcaact tt 382

<210> 38788  
<211> 275  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-018-Q1-K1-D1  
  
<400> 38788

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ataccatggc atatagacat gctgcatccg gacacagagt tgacagaacc aagggtctgt 120  
caactggatt gtaggaatac acatagcttt ctccgatgcg gacattcatg agttgggttt 180  
caacgttgta tgcgaggtgt acaacctgat gtagcacatg gtctactgcc tctagtaaaa 240  
catctagggc acattgagcg gacacctgaa ctaga 275

<210> 38789  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-D2

<400> 38789

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accgggggat ctttggcaga taaatttggg cggacaagaa cattcatcct ggatgcagcc 180  
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ggtcggttgc ttgctggaat tggatttggg atctcatctg cacttgtacc cctttacata 300  
tctgagatat caccaactga aattcgtgga acacttgggt ctggtaatca actttttatc 360  
tgcattggaa ttcttgcagc tttggtagct ggattggc 398

<210> 38790

<211> 61

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-D4

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<210> 38791

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-018-Q1-K1-D5

<400> 38791

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ggcatcggcg aggccatcgt tcgcctcttc atggagcacg gcgccaaggt ctgcatcgcg 180  
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gccatgttcg tccactgcga cgtgacgtcg gaggaggacg tgagccgcgc cgtggacgct 300  
gcggcggagc ggttcggcgc gctggacgtg atggtgaata acgccggcgt gacgggcacc 360

aaggtgacgg acatncgnac cgtggtactt cgcgggaggc gcgcagggtg etc 413

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<211> 312

<212> DNA

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gtgcctcccg gagaacgttg ccttcctcaa ctgcaagaag aaggacccta acccctagaa 180

gtgcctcgag aagggccgac aggtcacacg ctgcgtcctt agcctgttga aagaacttca 240

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attcgacttc tg 312

<210> 38793

<211> 444

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 38793

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atggaatctg agaatttggc aagggtctacc aaaggggtcg tagaaattta aattccaagg 180

gatagtgatc ttctggtgca tctagcagca caagttggga acgctctaac tgagcgccat 240

gcatttatca acgagttcat taaatttgnt gatgatgtag aaatttattt gcactacatc 300

ctcaacatat accacgtgtt aggcaagatg gtcgtgcatc atacttcttc catagaagtt 360

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<211> 401  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-017-Q1-K1-H12  
  
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 <211> 238  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-017-Q1-K1-H2  
  
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 catgtccata atatactacc acatctacta catcattatt acacacacta tcaactatcat 180  
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<210> 38796  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-017-Q1-K1-H3  
  
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catagtcggc aaccaatagg agcgtaaaac tggagctagg gattgaagct gttgcaggta 180  
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ctgtagaggc ttgctgatat ttggcatagg atattgctaa tttgtgggta tgatgcatgg 300  
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<210> 38797  
<211> 306  
<212> DNA  
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<223> Clone ID: LIB3069-017-Q1-K1-H4

<400> 38797

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gccgcggcgt ccgtggcgcg gaccttcttc gactgcgagc agctcctgct gcacaatggc 180  
gacaaccact acctgctgac cacggagcac gccgacacgc tcccctacag catcaatcta 240  
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<210> 38798  
<211> 194  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-H5

<400> 38798

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gatattcccc atcagaattg cgccacatac ggctcgccatt attacacacg ctattactat 180  
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<210> 38799

<211> 375  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-017-Q1-K1-H6  
  
 <400> 38799

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 tgtccatcat gaactccttc atcaacgaca tcttcgagaa gctggcggcg gaggcggcca 180  
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 ggctcgctct ccccgcgag ctgcgaagc acgccgtctc cgagggcacc aaagccgtca 300  
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<210> 38800  
 <211> 430  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-017-Q1-K1-H7  
  
 <400> 38800

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 aaggaagcta aggataagga ggtccatcaa agtccttgca ataagcaaca aggttgcaga 180  
 cattccagct gatgaattct catggaggaa gtatgggcag aagccaatta aaggatcccc 240  
 acatcctagg ggttattaca agtgtagcag tgtgagaggc tgccccgcga ggaagcatgt 300  
 cgagaggtgc gtggacgacc cctcgatgct gattgttacc tatgaaggtg accacaacca 360  
 caaccgagtt ctagcccagc cagcctgatc ttccaggcta tcaattcaag atcggttcta 420  
 cagtcaccct 430

<210> 38801  
 <211> 305  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-H8

<400> 38801

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attttctctca gttcataact gaaattgaaa gttttacatt atactgtaag aggaaaagga 180  
gagataaggt ttatggcaac aatgttgaga tccaggcatt tgcagagatg tacaatcgta 240  
ccattcacat atattcctac agtacagagc ccattaatat ttttcaagga agctataaca 300  
cagac 305

<210> 38802

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-017-Q1-K1-H9

<400> 38802

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cagatcgctc caactaacc cccacacaaa accctactca gtcacaccta tatagcctat 180  
tgccctttcg gcgcgcctcc attcgcacca ccgacgcgcc gtccaaaccc tagccgacgt 240  
cgacggcgctc gccgacatgg tcgccgtcaa ccggccgctc gtctacgtga aggccctaga 300  
gggcgacatg gtaaccgacg cccccggcat cgccttaccg nccgtcttcg gggcgccgat 360  
ccgccccgac gtggtcaggt tcaccacaaa gctgctgtcc tgcaacaagc gccagcccta 420  
cgcagtc 427

<210> 38803

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-A1

<400> 38803

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cccctcgagg ccaaccccca cgtcataaac cagttcatgt ggggactggg ggtccccgag 180  
gacgtggggg tctgcgacgt gtacggcctc gatgacgagt tgctcgccat ggtgccccag 240  
ccggtgctcg cggctctact tctctacccc caggaccgga gcaaggagtc ccaagcttca 300  
gtacactcgt cgggtggagac caaggagccc agcaagaacg tatatttcac aaagcaaact 360  
gttgggaatg cctgtggcac agttgggtatt attcatgcac tggggaaatg ctac 414

<210> 38804

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-A2

<400> 38804

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gccaagagga gatggccatt tggaaagtcc aagcactcgg agccttccat atcgacgggtg 120  
ccaggcactg ctccagcagt agctccgttg ccatcaccac cagcaactca gccccactct 180  
ctggagatca aagatgtcaa tccagttgaa acagacagtg agcagaacaa gcatgcctac 240  
tccgttgccg ttgcgtctgc tgctcgtgct gaagctgcag cagttgctgc ccaggctgct 300  
gcggaagtgt tccgcctcac agcagttacc acggctgcac caaagatgcc tgttagtctg 360  
agggaagaac ttgccgccac caagat 386

<210> 38805

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-A3

<400> 38805

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ggctacaacc attggcaatg cgtagagatt cagagatact catgttagga aagatgctga 120  
tggtgctgga acatgtgacc gagatataca tcctagagct gaacctgagc aatacttgac 180

atccgatgat gcagctgaac tcgcctattc tggagcgcgcat gaattgcatg cactatcgat 240  
gctggacagct agagaaagcg atgatcctgt gagggctaag aattc 285

<210> 38806  
<211> 420  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-018-Q1-K1-A4  
  
<400> 38806

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ccatcgtctt ccaggagctg gagcaggaag ccaagtgggt cgcggccgtg ctgtcggggc 120  
gggagcagct gccaaagcag gaggcacatga tggcgccgtg gaggagccac taccagctaa 180  
tggaggaggc cgggaggccg aagcgccaca cgcacgcact ggcagctcag tgggtaagcc 240  
aacgctgaca acgtgtgact gtgtgtgtgt gtgtgtgtgt taccggcccg acgtgcagc 300  
ctgaaactgt gtgcgttcgg accaggcgga gcacatgaac tggctcgcgg accaggtcgg 360  
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<210> 38807  
<211> 292  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-018-Q1-K1-A5  
  
<400> 38807

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ccagccccaat tctctcgcat ccctgtcaac catggcgggc tcagcaggcg gaggcgcggt 120  
gcgcgcgctg tcccagaagg agcaggacat acagatgatg ctgcgggccg acgtccacct 180  
cggcaccaag aactgcgatt tccagatgga gcggtatgtc tttaagcgtc gcaccgacgg 240  
catctacatc atcaacctgg gcaagacatg ggataagctc cagctcgcgg cg 292

<210> 38808  
<211> 405  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-H1

<400> 38808

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gatattgtcc gtcagcattg ggccacatat ggtcgccatt attacacacg ctatgactat 180  
gagaatgtcg atgctggggc tgctaaggag ctgatggcaa acctagtaag catgcagtca 240  
tcactttctg atgttaacaa gttgatcaag gagatccggt ctgatgtttc tgaagtagtt 300  
gcagctgacg agtttgagta caaggatcca gttgatggct ctgtgtccaa gcaccagggc 360  
atccgatacc tcttcggaga tggttcacga ctggtgttcc gtcta 405

<210> 38809

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-A6

<400> 38809

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ccaacgaggt gcccaagacc gcggagaact tccgcgcgct gtgcacgggc gagaagggcg 180  
tgggcaagtc ccggaagccg ctccaatata agggcttcac cttccaccgc gtcatacccg 240  
agttcatgtt ccatggctgc gact 264

<210> 38810

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-A7

<400> 38810

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gcgacgggga taagtacgtc ttccagatga cgacggcggc atggccgcgg ccacgcttcc 120  
tcgtcctccc ccagcctgga ttctccgct cggtctgcca cggcctctgc tcccgtgtc 180

tctttctgctt cctgctgctc ctgccttcg cctgcagctc cagctccggg cgggtggtgg 240  
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 aagtggagga agacgccggc gtggagctct tctactact 339

<210> 38811  
 <211> 429  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-017-Q1-K1-F5  
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 gacaccgtgt ggtcacgctt cctcccggct gacctcgccc cgctcgtcta cccgacgcct 180  
 gcgccaagat ccaagaagga gctcttcctt cgctctctg aaacccatgc cctcgttgaa 240  
 gatggcctca tgagcgcgtg gctggacacg gagaccggcg ccaagtccta tatgattgcg 300  
 gccagggcta tggtattat ctgggtcgac acgccggact actggcgctt gatagtgcgc 360  
 gaagactcaa ggatgctgtc aggtgacacg cgctatgcag nctacctggt attcaagatg 420  
 gccgatgac 429

<210> 38812  
 <211> 440  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-017-Q1-K1-F6  
 <400> 38812

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 caagtatcta aatttttcgc atcctactat cagctccaag attgatccac atacttgtgg 180  
 atgggctttt ggaatgaaca tttttgactt gatagcttgg aggaaggcaa acgccacatc 240  
 attgtatcat tattggcaag agcaaaattc tgacctattg ctctggagaa caggaaactct 300

tcctgcaagc cttttgacat tttatggcct gatggagccc ctagaccgca gatggcatgt 360  
 cttgggtctc gggatatgat tagacataga tgatcgtctg attgagagtg cttgctgtgt 420  
 gcactataat ggaaacatga 440

<210> 38813

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-F7

<400> 38813

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 tcgaattatc ttgttgccct cgtcttggct tcgctcttgc tctccgccat ggcaggaggg 180  
 catcggaaga agcttctgaa caaagacgac gcatcagaat caatggagct atcggaatcc 240  
 acgcagcagc tgcaggaaga cgacgaaatg gctgtggtgg tccacgagag aattctcagg 300  
 caggcgaaga tgaacgacta cgggagctac gactcttcgc cgaccatggc taagcctcac 360  
 ttcaaggaca tacctaacta gccagccac tatatacatt gagaggtcga tatatgttgc 420  
 ttgctagtcg agtcg 435

<210> 38814

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-F8

<400> 38814

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 gatgcgccgc gtcgcgctgt tgctcgtcgc cgacgtgtgc gcgctggcgg cgccggctgc 180  
 cgcggtcgtc actgacggtc ttctcccgaa cggcaacttc gaggatggcc cgcccaagtc 240  
 ggcgctggtg aacggcacgg cgggtgtcggg cgccacgcc atcccgcggt gggagacgtt 300  
 cggcttcgtg gagtacatcg agtcagggca caagcatggg gacatgctgc tgggtg 355



<210> 38815  
 <211> 450  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-017-Q1-K1-F9  
  
 <400> 38815  
  
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 gctgagttct tggataacac tgaacttttt ttttggataa atatccttcc ctcaagtgttg 120  
 ctataggcag tttctcaaaa gcatcgctta gttttgcttg taccttacga tagacaacga 180  
 ctattgtgca atcaggtcta aggttcaaac gagtctcctg gtctgttaga tcatgatcca 240  
 accgtatatc atatttaaca cttagaccct tacatcacca actcatgaag ctttataaaa 300  
 aacctaacaa accacagtca tatctacccc taaggtctaa ttgcacctaa ggatcaagag 360  
 actcgcttgc acacttgcac ctaaggtcta attgcacaac aatcggtgcc ccttactgca 420  
 ttacacaaat gacattttat ttttaccctt 450

<210> 38816  
 <211> 217  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-017-Q1-K1-G10  
  
 <400> 38816  
  
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 gtgttcaccg acaaggcaaa ggactcgagc cgtgtgtgtg tgtccttccg tgtcacggag 180  
 cccttcaaca tgctgtactg gtccacggac ttaaacc 217

<210> 38817  
 <211> 161  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-017-Q1-K1-G11  
  
 <400> 38817

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 aaaactagga tgtgaaaatt ttatatctat aataatgtat gctattcggt ttttgtgcag 120  
 ttattgtaca ttaccatttt atcgaatttg tgtgtcattg c 161

<210> 38818  
 <211> 250  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-G12

<400> 38818

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 cggggacatt tgctcatcat actgcagctg atgttatcat tataatcgcg gaatcagggc 120  
 agatatccaa tgacctgaaa ccaagggttaa aacatgtcac atgcataaac agcatctgac 180  
 gataccattt gcctagcttc ttgagacggc tatgccagac atgatgccct gctgaactat 240  
 gacttgaccc 250

<210> 38819  
 <211> 432  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-G2

<400> 38819

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 ctgcttgtct acgagttcat gtttcgagga agtctagaaa accacttatt ccgaaagaca 180  
 gctacgccat tgccctgggg tactaggatg tcaatcgcg tgggagccgc taaagggctc 240  
 gcttgccctc acaacgctca aaggcccgtc atctacagag atttcaagac atcaaacatt 300  
 ctgctggact ccgattatac tgccaaactg tctgactttg gcctcgcaaa agatggccct 360  
 gaaggtgatc agacgcatgt gtcgacacgg gtgatgggaa cctacgggta tgcttgccct 420  
 gaatatgtga tg 432

<210> 38820

<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-G3

<400> 38820

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agggtgaatt acattcagat tgtgcatcgt catgaagatc tggaccatgg aaacaataac 180  
agcttgacat cttggaaacc gtacggtgtt cctcttcttg cacaaatttc tcgcaatgaa 240  
attgtgacgg gttttgatat ccatgagttg gtccataaaa tgcttgtgac cgtgctaagg 300  
aatacggact ctctgcattt ggctgttcaa agatcttggt ccacaagaac tcatagttat 360  
cataccgaca gcagcaaatt tcagcttctg gtgggttgatg atagcaacac agtcatttga 420  
aatccaatg 430

<210> 38821  
<211> 294  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-G4

<400> 38821

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tcttgttggtt gggcattgca gtgcacggtg cacacttggt tagcccgctt ccgagaattc 180  
tcctgcctct gcatctggtc agttcaaaaa tgatttgcac gttggctatg ttgtgtaagc 240  
tctatttatg gtggtctcgc tgagacgggt atttggcttc gcagttatct agct 294

<210> 38822  
<211> 418  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-G5

<400> 38822

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 tgtgcttgca aggcggggcg cacgacgaga tccacttcga ggtcctgggc aacgtgttcg 180  
 gcaagcccta cacgctggac aacaacctgg tcacccaggg gcataggcca ccggaggagc 240  
 aagttcagct tttggttcaa cccaacgtcg acttgcacaa ctacttcac atctgaaccc 300  
 cagcacgtca tcttcacgtg ggacgacatg ctcatcaggt acttccgcaa cctgtatagc 360  
 aaggtggtga cgttcccaaa gagccagccg atgcgggtct actccagcct gtggaacg 418

<210> 38823

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-G6

<400> 38823

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 ggaggagatt gaggaagaga tggcagatgc cgtggaggcg gccagaaca ctgagcgcaa 180  
 gaagaagacc aagggcagga gcaaaccgag caagcgagcc aagaagaaag aggaagacgt 240  
 tttcaaggcc aagaggccct tcctggagca atctgataag gtggatgggc gacctgacaa 300  
 gaagcagcgg ataggtgaac tcccaaaggc cttgcaaagg tttgccaaga aaccacaatc 360  
 ataatcgctg tcgttaacac agggttggga tttcacattg gtatttccaa tatgtagaat 420  
 ttccgcgtga gcacagaaga at 442

<210> 38824

<211> 494

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-017-Q1-K1-G7

<400> 38824

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tttctctgcc catgtgatat gtagtcacgg tgtgcacccg aactattggt gtccacttgc 180  
 tcgaagatTTT tacctctcca tgtaggaagt cacggagagc tcgactgttt cggccatgtc 240  
 cggaaccttc tacagctcag caaanattgg ctcgttggaa aagggcacgg ctcaaaggcc 300  
 gtgatgaagt cttatgtcaa aacagttgtc tgactacata attgcagcac ttgttgaagc 360  
 actgcacaag gagccagaaa cagaaatgtg ctcatccatg ctggattctt taaacgagtg 420  
 tatgcagctt tcgggtcttt tgctcgatga agcccaagta cgagctatca tagatgagat 480  
 taaaaacgtc atta 494

<210> 38825  
 <211> 237  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-017-Q1-K1-G8  
 <400> 38825

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 ggccgtaatt tcttggaata aaaacaaaaa aaaaaaaaaa aaaaaaaaaa caaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaacaaaaa taaaaaaaaa caaataaaaa aaaaaaaact 180  
 gaaatatcaa aactaacaga acaaaaaata attagaaaga aaactaataa agaccaa 237

<210> 38826  
 <211> 401  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-017-Q1-K1-F4  
 <400> 38826

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 cgcgagggcg ttgatctgtc aaaggataga ttggccctgc aaaggcttcg tgaagctgct 120  
 gaaaaggcaa aggttgaact ttcctcgact tctcagacag aaatcaatct gccattcata 180  
 acagctgatg cttcaggggc aaaacatttg aacattacac tgacaaggtc gaaatttgaa 240  
 tctcttgtag acaatctgat tgaacggact agagatccat gcaagaactg cttgaaagat 300

gccggaatat ctactaaaga ggtggatgaa gtacttcttg gtggtggaat gactaagggt 360  
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<210> 38827  
<211> 442  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-017-Q1-K1-G9  
  
<400> 38827

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tcacccatcg ttcaggagct gatgcgccgc caagctttca gtactcccaa ctccaactgc 120  
acctcaaatt cccaaagcgg cacctccacg ccgatcgaga gatcgagctc aggttccagc 180  
aacggtgtgg ggcgcgccaa gcggcgtagc agctggctcc gcagcatccg ctgcgtagct 240  
ggctccttcg cgtcccactc acgtgaccgc cgcagcagcg acgagaagga cgcgtctcca 300  
gagaaaggcg ggcaccactc cagctccacg acggatgaca gccaggacag tgttccacgc 360  
catggcccg cccgtgtcaa ggtgcggcag tatgggaagt catataagga gctcagtggc 420  
ctgtttatga cacaggagat ac 442

<210> 38828  
<211> 353  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-017-Q1-K1-D9  
  
<400> 38828

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ccgccggtgc tgcactcacg gtgctgctcg ccggetacct cctcctgctc gtgccatagc 120  
tgtcgcttag ctcgttctag accctctgtc aagttgtgcc accagtaaga ttcgatgtgt 180  
tgttgctctt tctagtacgt gacgcgacag acaatttgct gctgggtgtcc tccttgaagt 240  
ccatgcactg ggtgatcact gtatgctatg ggtactagat gctagggcat gtgttaagct 300  
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<210> 38829

<211> 385  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-017-Q1-K1-E1  
  
 <400> 38829  
  
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 ggcgattatg agctagataa cggggaggaa aacatgagat ttactgaaga aacacgtcaa 120  
 taatatgtag acctagcttc tgcagatata ctgaccacag caattaggtc gtaaatgaac 180  
 gtatcgattg aaggctcgac agagttagtc gcaccggatc taacatcact gtaatatgat 240  
 aaagaccttg aactgctgat cagtgatctg actgtaattg acttggatga tctgaaggtc 300  
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<210> 38830  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-017-Q1-K1-E11  
  
 <400> 38830  
  
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 gaaggattga catggatggg acttttaaata tcaaggtttc tggccgaaaa agcttatgga 120  
 aggttgctcc tggtgacgct gagaggcttt cagcttttga gggttgagat tgggtccgac 180  
 caaaaccaag tattgggagc agacctactt atgactggaa tagagttggg agaatacaaca 240  
 ttgcagtagt ccatatcatt caggactctg gatacttggg gttagctggc tgattcagga 300  
 atgggaagtg gctaaccat aacacagaca ttgagaaagt gcagacatta aaaattggtc 360  
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<210> 38831  
 <211> 431  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-017-Q1-K1-E12

<400> 38831

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acagcggcaa acccaaggtg ctttgatgca acctgtacat gtgtcccacc aacaaacaca 120

tgtttctcat catcctgcac cgatgcgtcc ttcattggca ggccatcagc cagctttgca 180

gcaccccttag gccagggaa ttcaacatac attacaacat gaaaaacata ttgggtttca 240

tgctcagtgg ccaacaatgt attccaacat tccttcccaa gcaccaccac agggattgtc 300

tgtgcactca tctgtttcct cacaatcagt ttaatcatac cagcaaggaa tgtcttcac 360

acaacagatg catttccaac cttgtcaggc atatacacia cagcatggta ctggcaatac 420

tggacaacat g 431

<210> 38832

<211> 127

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-E2

<400> 38832

cccacgcgtt cgcgcacgcg taggcaaact tttgagactt tataacaacat gacctttaat 60

agcgaatttg agcaatatta tggggaataa aacattagat ttactcatca aacacaacat 120

taaaatg 127

<210> 38833

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-E3

<400> 38833

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tgaagaaggg cgagggtgct cttgtcacia ttctctctga atatgcattt ggttcaactg 120

agtcaaagca ggatcttgct gttgttccac ctaacagcac agtaatatat gaagttgagc 180

ttatttcatt tgtgaagggtg cggacatgac tgatattcgt gtctgttcta aatcattgac 240

ctgtgtgcaa ctgcacatga ctgatattcg cgtctgttct aaatcattga cctgtgtgca 300



attgcaaaat tgatcaatat aatcttgtca cacaggacaa ggagtcgtgg gacttgaaca 360  
atgaagagaa gattgaggct gctggtaaga agaaagagga agggaatgca ttgctcaaat 420  
cgggcaaata tgctagagc 439

<210> 38834  
<211> 438  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-E4

<400> 38834

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ttgcactcct tcgacgcac ctaatcagag gaagaacgcc ctgggtgccc agagggtacg 180  
atccctgcac ggagaagtac tccacgaagt actacaactt acctgaggtg cagagagctc 240  
tacacgcaa tgtcaccgga ataccgtatc cctgggtaac ctgcagtac ccagtgtatg 300  
atTTTTGGAA agattcgccg aggtccatgc ttctatcta ccgtgaactc atcgccgcgg 360  
gcataaggat atgggttttc agtggcgacg cttgattccg tgtcccgctc accgcgacaa 420  
ggtactccat tgacgccc 438

<210> 38835  
<211> 389  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-E5

<400> 38835

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ggcgatgtcg gggcgcgga agggccgcaa aggtctgggc aaggcgag caaagcgcca 120  
ccgtaagggtg ctccgtgaca acattcaggg catcaccaag ccccgatcc gtaggctggc 180  
tcggaggggc ggcgtgaagc gcatttcggg gcttatctac gaggagacc gcggcgctct 240  
caagatcttc ctgagaacg tcatccgca cgcgctcacc tacaccgagc acgcagccg 300  
caagactgtt accgcatgg acgtcgtcta cgcgctcaag cgccagggcc gaacctcta 360

cggttagga ggctatgctg gatgcctct

389

<210> 38836  
<211> 434  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-E7

<400> 38836

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ggctctgcc a ccaaggaggg tctgaagctt gatgagactg aggacgagaa gaagaggaag 120  
gaggagctga aggagaagtt tgaggggctg tgcaagggtca tcaaggaggt tctgggtgac 180  
aaagttgaga aggtggtggt gtctgatcgc gttgtggact caccgtgctg ccttgtgact 240  
ggcgagtatg gctggaccgc caacatggag aggatcatga aggcacaggg cctgagggac 300  
tcgagcatgg cgggctacat gtcgagcaaa aagacaatgg agatcaaccc agagaaccct 360  
atcatggatg agctccgcaa gcgtgccgag gctgacaaga atgacaagtc agtcaaggat 420  
ctcgtgatgc tgct 434

<210> 38837  
<211> 304  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-E8

<400> 38837

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ggtgcgaggg gttccagagg atgcagagat agaggatgca gaggagaag atgcgatcaa 120  
tgttagattg ataaatgtaa tatggttctg acatctatgt tcgaatatgc cggtgacaag 180  
tagatctatc ggatcgcttt gttctcttga gtgatgaaac atgatggcgg tcgggctaag 240  
ggtgaagctg ctttcagtta gactatgctg tcattctgct gaatatatat cagatttctt 300  
gaac 304

<210> 38838  
<211> 355  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-E9

<400> 38838

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ctatgcagat gcctactgca ctggccttct gttggctcgc cgtgtgctca agatccgtgg 120  
cttggatcat gagtacgacg gcaatgttga ggccactggg gaggacttct ctgatgagcc 180  
agctgatgag aggaggcctt gtcgtgctct cttggatggt ggccttatca ggactacaac 240  
agggaaccgt gtcttttggtg cctcaaggg agcattggat ggaggcctgt atattcctta 300  
cagcgagaag aggccttgctg gattcaagaa ggacgacaag cagttggatg ctgat 355

<210> 38839

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-F10

<400> 38839

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tcctgggaca tcaacctagg atggttctta gagccagtgg ttcgtggtga ctacccttc 120  
tccatgagat cattggctag ggaacgacta cccttcttca aggacgagca gaaggagaag 180  
ctcgccgggt cctataacat gttgggggta aactactaca cctcacgggt ctccaaaaaac 240  
atcgatatct caccaaacta ctcacctgtg ctcaacactg acgacgccta cgccagtcaa 300  
gaagttaacg ggctgacgg gaagcccatt ggtcctccta tgggaaatcc atggatctac 360  
atgtaccctg aaggcttgaa ggatctcctt atgatcatga a 401

<210> 38840

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-F11

<400> 38840

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agctagctcg ggcggcagca ggcagccatc atgtcggagg agaagcacca ccacttcttc 120  
aaccaccaca agaaggacga ggagcagtcc gccagtaacg acgggtactc cgagaccgag 180  
gtggtcaccg ccaccggcga gggcgagtac gagaggtaaca agaaggagga gaaggagcac 240  
aagcacaagc agcacctctg cgaggccggc gccatcgccg ccggcgccctt cgcactctac 300  
gagaagcacg aggcgaagaa ggaccccgag cacgcgcaca ggcacaagat cacggaagag 360  
gtcgtgcccg cggcagccgt cggcgccggc ggctacgtat tccacgagca ccactag 417

<210> 38841  
<211> 450  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-017-Q1-K1-F12

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gcgagagcta gctagagggc cgtgaaaatg ccgatcaata ggatcgccct ggggagccac 120  
caataggtgt accaccggg cgcctcaag gcggcggttcg ctgagttcat ctacaccctc 180  
atattegtct tcgccggcca gggctccggc atggccttca gcaagctgac cggcggcggc 240  
ccgacgacct cggcgggcct gatcgcgacg gcggtggcgc acgcgttcgc gctgttcgtg 300  
gcggtgtcgg tgggcgcgaa catctncggc gggcacgtga acccgccgt gaccttcggc 360  
gccttcgtgg gcggcaacat caccctgttc cggaggctcc tgtactgggt ggcgcaactg 420  
ctgggggtcca ccggggcgtg cttcctgctc 450

<210> 38842  
<211> 448  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-017-Q1-K1-F2

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gggaagctgt tgtttcacag aatgcagaat cacaaatc agaagtcag cttattgtgc 120

aggtgtgttc gacaagtgtt gatgaagctc ttatgaaaga agagtttgac aagctgtctg 180  
 ctgccctggt acaaggagca gcaacatgct cacctccctt gccactgaca actattgtag 240  
 tgcaagatca taaagggata tcaaagtctg cacctactga ttgccactg agcccgctat 300  
 tggtagcaaaa gggagataag ttggatggca catcagaaga taaaacaaga atccatgatc 360  
 acataagcaa cttaaagtct tctatatcac caacagcttt tttccagggt aatactcttg 420  
 ctgcngaaag attgtatacc cttgctgg 448

<210> 38843  
 <211> 402  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-F3

<400> 38843  
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 tgggtgctctg aacgtggatg ttaacgagtt ccagaccaac ctggtaccct acccgaggat 120  
 ccacttcatg ctttcttcgt acgctccagt catctctgct gagaaggcct accacgagca 180  
 gctctctgtg gctgagatca ccaacagtgc cttcgagcca tcttccatga tggccaagtg 240  
 cgacccacgc catggcaagt acatggcctg ctgcctcatg taccgtggtg atgtgggtccc 300  
 caaggatgtg aatgctgctg tggccaccat caagacaaa cgcaccatcc agttcgtgga 360  
 ttggtgcccc actggcttca agtgcggtcat caactaccag cc 402

<210> 38844  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-D8

<400> 38844  
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 gatcgaccag atttggcagt gacagacttc agggggggtc aagaattgag ggctgatctt 120  
 cgttcttctc aaggattggt gcgtgcttat ctagcacttt ctaaattgcaa agatgcatta 180  
 ttcactgcac gcgaggcgat gaacgttatg catcagtctg caaaagctct taagctagtt 240

ggtgatgttc atgcaattag ttccagtggg agggagaagg caagaaagtt ctatgaatca 300  
gccattcgtc ttgaacctgg atttcttggg gctgcactgg ctctggctga tctgcatgtt 360  
gcggaaagac ggaataaaga ggctgctatg ctactggaaa gatatatata acaatgggtca 420  
gatgattctc taca 434

<210> 38845  
<211> 431  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-C3

<400> 38845

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tcaagacgca ataactataa catgcactag agtatgaaga aacgcaagac gtccccgaca 180  
tctactccgt ctttgcaaaa actgtctcaa tgatatctcc atgaagacat cctaaggcta 240  
atcactgata atgtctaata actcatatcg cacagtcatt aacgcaacag catatgtctc 300  
caaagagctc aacgccaagg acactaccat gtaggcaggt catcagcggc ttccatagaa 360  
tagacaaagt gccactgca gggcaaacgg tcctccatgg gcaaggccta atcaaagcat 420  
ctgtatatgc a 431

<210> 38846  
<211> 359  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-C4

<400> 38846

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gggggctggg gcggatgagg aggagcagct gcccgagccg aagcggccgc gcgcgtgtgt 120  
cgccacgctc gaccacgtcc ccggcgcggc ggtgtccttg gttctggtga ccgatgagac 180  
ggaggactcg cctggctcgg gcagaggcga ctgcccgcac ggcgcgctcg tctcgatcca 240  
gcacgcgcgg agcggcttcg tggcgttgga gaccacgccc aagttcgggt ccttcaaccc 300

gccgggggaa gcctagctgg cggccctaga tctgaagcat gcgcggcacg aagccgacg 359

<210> 38847  
<211> 427  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-017-Q1-K1-C5

<400> 38847

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gtccttggct acaagctctt gtgttggagg ttgacgggtc atatcctgac cagaaagcca 180  
aagcaaagat taccactacc agtaaagcaa caaatagcaa acctacaact gatgcactgg 240  
caatatcaag tcaagaatcc agcaagctac cagtggcgga agacactcat ctgcatggcg 300  
ccgcagcacc gagaatccac catgagtgtt ggtatcagag gctgtcaatg tcttgcagaa 360  
ggagtgcacg cgtggccttg caagtgcagc aggaggtgaa gcangcatct nctcactaga 420  
gccattc 427

<210> 38848  
<211> 413  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-C6

<400> 38848

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ctgccgctgc atttgggtgt gtatgcattg gcgcattgac cgtcctggct gatttcatgg 120  
gtgcgattgg ttcaggaact ggtatattgc tcgctgtgac aatcatatac caatacttcg 180  
aaacctttga gaaggaaagg gcgactgagc ttggtttctt tggcttttga ttagtagctg 240  
tggaacctta acttggctat agctgaattt tcttctaagt acctgtagtg cttagccagt 300  
tgtaacttaa agagtctctg ttaggttgcc ttcttgcggc cacaatcatg tagcagaatg 360  
tgctgtgtt tcacgttagc gtgggggtat gtgcatctgt ccaaagagag tct 413

<210> 38849  
<211> 412  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-C8

<400> 38849

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gtgctgctcg tggcctgggt ggccgtgctg ttcccgcgcg cgtcggccca ggagatggac 180  
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gtcctggccg tggtttgctc tgccgtattc tccatcctcg tcgcccgttg cctcgtgcag 300  
taagcgctgc cgtcgacctg gtggctcgct gctggttcgg ggtcaagcgg agccctgttc 360  
gatcgttttc gcctctagta gtagtagaag tagcagtcac gggctgtggt ga 412

<210> 38850  
<211> 143  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-C9

<400> 38850

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gaaaaataaa aaaaaaaaaa aagaaaaaaa aaaaaaaaaa aaaaaaaaaa aatgaaccaa 120  
aattaagagc acataaatgc aac 143

<210> 38851  
<211> 260  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-D1

<400> 38851

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tgcaaataag tgtaactaa agcgttgaat gagatattcc atctagccaa tataaccagg 120  
tttaatagaa aataactatg actccagctt ccatcttaag ggaagctggg cttgcaagat 180



atgggtcctgg tacctgaaaa aactatcttg aggtcaggtc aaggaatact acctgtgaac 240  
ctaattgtgat actggcttct 260

<210> 38852  
<211> 371  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-D10

<400> 38852

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catcgtaaac gctatgtact gtgaatccat ccatcctctc agtcgacctt cgaccgctag 180  
ctgatctata cgacgtaaca gactagcacg cagcagctaa taatggcgct gggcctagca 240  
ctgcgtacgg ttatgaggcg ctccggcagt aactactcgc gcgttgcgga tgcagcactg 300  
cgctctacg tctccgggtc gtcggctgct tacactgcgc agaaacggca gctcgacaac 360  
tggttatcc t 371

<210> 38853  
<211> 398  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-D11

<400> 38853

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ggtctgatcc accggcccg cgaacggatc cagggcattc gcattctagg atcgctcgc 180  
gtcgctgcc gccgcttgaa atccccggat cgggtgaatt gggccctggc tgcactcgat 240  
aaccagccg tagggtagtt gcctgtcgat ctgctgctg gagctgggta actacctggc 300  
catttggtga ttgtgtgcc tgcttgattt tgggtgatgc atggtcgtgg tgaatccct 360  
gcttgggggtg tctgaactag ggggtgggcc ttcaagat 398

<210> 38854  
 <211> 380  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-D12

<400> 38854

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 ttgctggata tggatgggga gaagtgtcca gcacatgggtg cttgcagatt cggttttgtat 180  
 gagttgatga tttctctgtg gggcgttgca aggaagatgg gggtcgagga gaggcattgcg 240  
 cagaatagct cctaggatga gcattccaag aacctcattg tcgatgccat gatgctggac 300  
 tcccgggctg tcaatctcga caaggggcca cctgtcgct ctggacaagg gggctgcctt 360  
 aaggtcctgt ttttgctttc 380

<210> 38855  
 <211> 437  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-017-Q1-K1-D2

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 acgtgtctca tcaaaggcca taaggaggca gttagggcat aaccttcttt ctgcattgaa 180  
 gtacacatac aagattgata agagggattc acatcttagg ccaacgaaag gatatgcgtt 240  
 tcagtcaact tctcaagttg gtgggtctatg gaatagcaaa agattgagat atttccggca 300  
 ggagttcgat gtacgtgggtg ctgtgccttt gggattttat agtgctgctc tcaacgttgg 360  
 tgtangagcg ggtgtcattt taccgcttgc agggggattc atgaattcga cttcatcagt 420  
 gccagagagg ttttatc 437

<210> 38856  
 <211> 362  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-D3

<400> 38856

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atgatgccct actcgatgtg tgagtaccgc tgcttcgtct gcggcctcgt ctgggacacg 180  
gaccaccagt cgctgcataa cgacttgaac atctatggcg aggtcctcct agccaacatc 240  
atcctccatc cggacacgca cagtgccgcg ggcttcggct tcgtcacctt ctccacggag 300  
gatgcgatgc ctaacgacat cgagggcatc aacagcaagg agctggactg tcgcaacatc 360  
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<210> 38857

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-017-Q1-K1-D4

<400> 38857

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ggagccacac cacggtgtac ctgtggctcg cgctcgccgc agcagcactg acgctcgccc 180  
aggctaagaa ggacctaacg gaggttacct acaaggtcta cttcgatgtc gagattgacg 240  
gcaagcccgc aggtcggatt gtcatggggc tttttgggaa gactgttcct aagacagcag 300  
agaacttccg agctctttgc acaggagaga aaggaattgg caagagtggc aaagctctcc 360  
actacaaggg aagtacattc cacagaatca ttcccagctt catgctccaa ggaggtgact 420  
tcactcttgg ngatggggag 439

<210> 38858

<211> 395

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-017-Q1-K1-D5

<400> 38858

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gagcaccatg tcctcctgga ggggtaccctc ctgaagccca acatgggtgac tcctgggtcc 180  
gactctaaga aggtgacacc tgaggtgatc gccagtaga ccgtccgtac ccttcagagg 240  
accgtccctg ctgctgtgcc tgctgttgct ttcctctacg gtggacagag cgaggaggag 300  
gccaccctga atctcaatgc catgaacaag ctcagcacca agaagccatg ggccctgtcc 360  
ttctncttcg gccgtgccct tcaggcgagc accct 395

<210> 38859

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-D6

<400> 38859

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gggagtctct tattagctct aggtcttagc tagccgcgcc actccttcgt gtagccatca 120  
gccttctcat cgccaccaat ggccactgcc gaggtccaga ccccgaccgt cgtggcggcc 180  
gaagaagcgc ccgtgggtgga gaccccgctc tgggcgctc tgcccagga gtctgcccc 240  
gccgaggccg aggccgaggc cgaggctgct gctcctgctg atcccagga gcttcccgcg 300  
gccgagcagc aagcagccgc cgaggcgag gccgcggctc ctgctggtgc cgaggagccc 360  
gtcgcgcccg aaccggccgt cgaggcgag gctgctgctc ctgctggtcc cgaggagact 420  
cctgcggtcg agc 433

<210> 38860

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-D7

<400> 38860

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 ggacgcccc ggaggggcgc ccgcggcagc gccggcgctg ggcacagaac acgcccacta 120  
 cccgtattac gctggctatt cttatcccta cggcgccctat caccaacctg ccccgcccac 180  
 gtactcctcc gccgtggcgc acgcctcgtc atcctaactac taccgcgtcc ctgccgcgc 240  
 gtcgtccacc gacgcgcagt acgacccta ttcgggttac cagcactaca gtcacccgga 300  
 gggaggacgc tcggcggggg ctggcctggt gggctgctac agcaccgtcg gcgaggcgtt 360  
 gcagcaggcc gaggtagcat cgacgacgc 389

<210> 38861

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-C12

<400> 38861

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 tatgtaatat atacctagtg gagttcacac ttacatgtg caatttatgg ttattagatt 120  
 gcgcaacatc aaatcaatgt agcatgcttc tgtaccttca aggttcgtcc ttgtgaactc 180  
 tgatgtactt ctgattaaag ttttcattcc aaatgtttat ttgggtcatgt tgccgctaatt 240  
 ttatcagctc cagtgtcgtc aatctcattg gacatacctg cccggtctca acatgagggtt 300  
 agtctggcaa ttggaagagt atgctgggta ctagaaatat ggatatggaa tgcattctacc 360  
 aacaaaattt agaattccag tgcattggat gcacattaac aagtgtaatg ctatacatt 419

<210> 38862

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-A5

<400> 38862

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 atcaagagct aaggatggca gagtcaatgg tagcaagctt ctgggggcct gtgacatcaa 120  
 caactgagtt gtgcgaggag aattatgcac actcgtcata tatcgagaa ttctacaata 180

ccatctctaa tgtcccatgc gttcttttgg cacttattgg attagtgaat gctttctgcc 240  
aaggctttga gaaacgattt agtgtcctgc acatatccaa tatgatactt gctattggga 300  
gtatgatttt ccatgccacc ttgcaacttc tctacaaca gagtgatgag actcctatgg 360  
tttgggagat ccttctctac atgtatgtcc tctattcacc ggactggcac tacaagagca 420  
caat 424

<210> 38863  
<211> 412  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-A6

<400> 38863

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ggtgtatcat atgtgaaact gtcaacttgg aattcaaaga aattggttct atgtgtggtg 120  
ggccttagga gaacaccaga tctagacatt tgttgaaaca acttaccatt ggcccagaca 180  
attcttttagc acgaatgatg gatcttgcaa ccacaaggaa gctcgcgatg aaaaataaaa 240  
ttgtttttgg cacaagtgac cattggccgg cccctacttt gactgctaac atgggttctg 300  
taagagctgt ttcccactct ggtatgtcct tgcttaccat cgatcaccga ccttgggcgc 360  
tgattgtgct gtgacagtta gtatgccata actattctat acgtggtttg ag 412

<210> 38864  
<211> 111  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-A7

<400> 38864

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gtgatgtcga ggtcttggga cctaaagaca ctctcagggc cagggatgtg t 111

<210> 38865  
<211> 254  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-A8

<400> 38865

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ggggcatcat actcttatgt gtcggcgta gtttgtttgc gtcacagtt tcgttgtctg 120  
ttgcatgtca cggcttactt atgtgcttat ggattgctac tatacaagta ttcgttttgg 180  
atgtgttaaa aagacatgaa aatggagcta catgccagaa gacagacgga ggcttctttg 240  
gaagctgctc tgac 254

<210> 38866

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-017-Q1-K1-B1

<400> 38866

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tgaagtgtcg ctgttgccgc tccatcgccg gaccgtgccc tctctctgca cccgagctcc 120  
tcttaaggtc ctggtacatc tctcgcata acggcttcca cagacgaacc ctgcgattta 180  
tgaaccaatt tgaaacctgg taaaaatgca aaaccactcg aatccatcat taccatct 240  
cgccaaaaaa gaatcgaatt tgaaacgagt ctggtgggat ttcgatctgt gcttggttcc 300  
tggtgaggct gtccttgcc gncagcacgt ncttctcatg gtccttgga tacctgagca 360  
gagcanagca gagcgcgatt ctgatcatgg ccaacaatgt cgatagacga tttgcacagc 420  
aacgtcgcgg gaca 434

<210> 38867

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-B10

<400> 38867

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gacgctcatt ggggtacgtga acaaggatgc tcatgctgca ttacagtgt aatgttggtc 120

tcatgggcaa tactactgat acatatctct acggtgtcat tgagattggt atacacagca 180  
aacgttggac tgaaccttca tatgataatg gatggtgcca ctctagtgtt taaggctgta 240  
tagaaaatga atgcggtcga tatt 264

<210> 38868  
<211> 295  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-B11

<400> 38868

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ggcctcagga gatgaagcag cgggcggaga gtgcgtgaac aatcgagcca acagaatttg 120  
caccacacac caacacacag ttgctagtgg tcaattgtcg ttcatactga tcgatgaata 180  
tgtaattgtc ccttctgtac accaaaacgt ctgtagtgtc gtttactcgt tttatacgtg 240  
tctgtctatt tatcgacca aaagatattt aataataatg gattattatc tttct 295

<210> 38869  
<211> 287  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-B2

<400> 38869

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aatagaaaat atgaaaaaaaa taaataaata aaaaaaaaaa aaaattaata atatatataa 120  
aatttctttt aaattccttt tccatcttat acttcaacct atttcacaac taactatttg 180  
atttatcaac caatttttaa aatatacaaa tttaaaccac tataatcatt attaaccatc 240  
tcttaaaaaa aaatagattt aaaaaaaaaa ttgaaatttc atttttc 287

<210> 38870  
<211> 443  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations



<223> Clone ID: LIB3069-017-Q1-K1-B3

<400> 38870

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cggcaggggtg gcgtgcaaca agaagggcgg catccggttc accatcaacg gccactccta 120  
cttcaacctg gtgctgggtga ccaacgtggg cggcgccggc gacgtgcacg cgggtggccgt 180  
gaagggcgac cgttccgagg ggtggcaggc cctgtcgcgc aactggggcc agaactggca 240  
gagcaacacg ctcttggaag ggcaggccct ctcttccgc gtcaccacca gcgacggccg 300  
ctccgaggtc tccagcaacg cttgcccgcg cggctggggc ttcggccaga ccttcagcgg 360  
ngcccagttc aactgaacac cctccatggt tcccgcagcg tcgtctcgtc cgtcgtcggc 420  
gcggtgccac angtagtagt ttt 443

<210> 38871

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-B4

<400> 38871

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tagggaaaaa ttataataaa aaaaaataa aaaaatataa ataaaaata aaaaaaaaaa 120  
taataattaa aaattataaa aaaataacaa aaataaaaat aaacaaataa aataacaaaa 180  
ttaatcatta aagtcaactt ttttaaatag atacaaatat atgttgtaga acttaggtta 240  
aaactttatt aataacacac taatggactt taataacctc ttcttaaaaa ttattaataa 300  
ttaaaaacac 310

<210> 38872

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-B5

<400> 38872

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gagttcacga tgcgtgtggt cctctgggggt gctctttctt ccatgggtgct ccctaagtat 120  
 cctctgcccc cctatgatgt tgtagtacgt ggaggagccc ctaatgcctt ttcgcaatgt 180  
 atgggttgc atgacgagac acaaaaacca tccctgaaga aagccttgct tcttggtgat 240  
 gcaatttcag atttaccaaa ggttcaaaat caccagccta acgatgtgat ggagtatggg 300  
 ggttccccca agaccgaatt ccagcgctac attcgactca gtcgtaaaga catgttggat 360  
 tggtccttca gtgagggggc tgggtccaaat gaaggcaagc tctttgatca ccaaccttta 420  
 cggcttacaa cgatgattat ga 442

<210> 38873  
 <211> 441  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-017-Q1-K1-B7

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 gtggttacca ctggcttaca agttccaaat aattgggtgc tatgctcaga cggaacttgg 180  
 tcatggctca aacgttcagg gccttgaaac aactgctaca ttcgatccga agactgatga 240  
 gtttgtcatc cacagtccaa ctctcacgtc cagcaaattg tggcctgggtg gcttggggaa 300  
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 acatggtttc attgtgcaac tgcgaagctt agaggatcac ttncacttn ctgggtgtac 420  
 ccctcgtgat attggtggaa g 441

<210> 38874  
 <211> 419  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-B8

<400> 38874  
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ttgcaaagcg atcattgggtc caaagcgact ttaatctgac gagacctcct catttttagg 180  
 ttttttggta tttagaacca gaataatttg tgcatactca ttactccctt ggatctgaaa 240  
 caaatgtcgt tatattgaat gagtgggttct ctgatgcact aataacctga tagccggaga 300  
 atcactaaca ttatatgcaa gaactttatc taaaagccag tcaccatggc cccctgagaa 360  
 ccccgacatg ctgcaactga ggcaagcttt tatgctcaag atcttgatga ggtattcat 419

<210> 38875  
 <211> 353  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-B9

<400> 38875

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 actggaacgc tcggttacat ggacactgcg ggtctgaatg gaaatcccta caacaggaaa 180  
 tgcgatgggt acagcttcgg gatctgtttg tgggagatat actgctgaga tatgccatat 240  
 cctgacttga gcttttctga ggtcacgtct gcagttgtcc gtcagaacct gaagcctgag 300  
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<210> 38876  
 <211> 407  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-017-Q1-K1-C1

<400> 38876

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 cattcaggaa taagaaaaag cacgatcgct cttcatgagg ttctaacaca ctttcaagta 180  
 gtgatgtaga tgcgggcaat gttcctgagg aggacaatgc taatgagaag gcgaagcaag 240  
 cctcctgcag caactcttca gctggtgaca ctaaccaccg cagatttaga agcaatggaa 300

gcacaagtga ttcatggaag gaagtttccg aagagggctcg tctggctttc gatgcgctgt 360  
tcagtaggga aaagcttccg canagctttt ctccccaca agcagta 407

<210> 38877  
<211> 350  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-C10

<400> 38877

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acatgaagat cagcacagg gtgagcatga acaccatgag catgagaatg aacacgacca 120  
tgaccatcat caccatcatg atcatgatca tgatcatcat gcacatgacc aactcatga 180  
tcccgggtgtt tgtatctgtg agcattgact gcgaagggga catggatctt gaaaaggctg 240  
acatgaggct gggggaccta ctgctggaac acagcgagga tatctacagg atgaaaggctc 300  
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<210> 38878  
<211> 438  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-017-Q1-K1-A4

<400> 38878

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attcaagggg tcatggtaga aagggtcgta cagctagtag gggtagggat gaggttggga 180  
catggagcct cgatttgag gacatgaaaa tggagctaca ggccagaaga cagagggagg 240  
ctgctttgga agctgctttg gcagagaagg agcttctcga agaagagtac aagaaaaagt 300  
ttgacgaggc aaagaaaaag gaactatctc tggagaatga tctagcangc atgtgggttc 360  
ttgctgctaa gttgaaaaga ggagcttttag gcatatctga tttgaatgtt gacgaccgaa 420  
ctgttaacct agctgata 438

<210> 38879  
 <211> 458  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-C11

<400> 38879

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aaccgctgct gctattgcct atggtcttga caagaaggca accagtgtcg gtgagaagaa  180
tgtcctcatt tttgacctg gaggtggtac cttcgatgtc tccctcctta caattgagga  240
aggatatctt gaagtcaagg ccacagctgg cgacacccat cttggtggtg aggactttga  300
caacaggatg gttaaccact ttgtccagga gttcaagaga aagaacaaga aggatatcac  360
tggcaacccg agggctctcc ggcggtgaa gaccttttgt gagagggcca agagaactct  420
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<210> 38880  
 <211> 391  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-H12

<400> 38880

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gttaaccca aggaccacga caagccagtg caagaggtgc tgattgagct gaccaacggc  180
ggcgtcgacc gcagcgtgga gtgcaccggt aacatcaacg ccatgatatc cgacttcgaa  240
tgtgtccacg acggctggag tgtcgccgtg ctggtgggtg tcccgtcaa tgacgaccag  300
ttcaagacc acccatgaa ctctctcctc gagaagacac tcaagggcac ctttttcgga  360
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<210> 38881  
 <211> 431  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-016-Q1-K1-H2

<400> 38881

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ggtgtggtga acgtgagggg agtcctttta ttacacttcg tccttggcat ggtgaggagt 180  
cttcaccgct gtactacttt ctttaagttag cgactctgca tatgtagaag atgcggaaga 240  
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ttgcagatgc ggctactgtc tagagtatcg gttctgttga ggcttagaag gggctacccg 360  
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<210> 38882  
<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-H3

<400> 38882

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cctctggtga cgacgctgtt tactgaggtg tagggctcag gatttgtttg atgctacgct 180  
gttgctaaat tgaatggtta agactaagca ggatttgccg taatgagtta ttgccaacc 240  
ttcagggcct ccggagcgcc cccccccctc tctctgctgc tgagctaaaa aaagaaaaaa 300  
gaaaagaaac ggctaaaatg tgtggatagc gagcccgat gtcgcgcac cctggcgatt 360  
cgcgcccccc cccctctcgg agggctcccc gcttgtagc aaccagttg ggcccgcgat 420  
ccgcgatccc gcgagc 436

<210> 38883  
<211> 389  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-016-Q1-K1-H4

<400> 38883

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ccgagacgcg agtgttacag gtagcccggt cggcgcaaca aaaacgggcg cactagataa 180  
tgcccaaact ccgacgaaat tgcgcaccgt attcgcggca cactgttaaa tcccatctac 240  
ctagtaccac attataggcg taacgtcgaa cgagcaaagc ccggtgacaa aaaaaagaaa 300  
aaaaaggggtg gttgtctcag aggacttaag tccatgcatg tgcgtacgtg atgctacagt 360  
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<210> 38884  
<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-H5

<400> 38884

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ttataaagaa aagctaggcg cctctaatacg tcgtcgataa ttagatttaa gcgggcactt 180  
ggg'gcgcgta aggcgagtgc gaaacgggtca tagataataa gtcttcgggc gaacccgatt 240  
ctg'ggggtac cttattcggt ttaagaggtc cgttctagac cgaggccata cctgatactg 300  
acgttaacgg aaccgcgatt gctctagtta aagacaaggt cattgggaag gagtagaata 360  
ctattacatg acttctgggc gggtcgctag aggtcgatac ttagaagacg gcgtaagaag 420  
tcgagtcgta cgttta 436

<210> 38885  
<211> 452  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-016-Q1-K1-H6

<400> 38885

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cttctgttct tgccttgccct tgccttgctt tgtttgttgt tgttgttgta cctagggacg 180

gagacgaaga agactgttcg tgttgcttct gctgttgctt tgggtggttat tgcgggtgtct 240

gttgtggagg tcttgggtctt ggggttttatt agtgggtcttc ttgttgctgt gtttgttgct 300

gggtgttgnnt ctggngttga tgctgttctt cctcctgttc atcataccta gcgagttggg 360

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tgtgtacctt gacgtgcggg tacgcccccc cc 452

<210> 38886

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-H7

<400> 38886

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tgagcctggg tggtttccta ctacttcgtg ggagtaggag aagaagatgt gttccagggg 120

gtctgatgtg tagaaggtta atactgttct ggtaagggtt gctgtgtgga cttcttgtat 180

gctgtccgga tttaagggtta cggacaagac gtcttagctt tttgatgggtg atgctactac 240

tataaacgac ggagtgatta cttcgagta gacggacgcc gataattaga cagtaaagtc 300

gacggcggag tcgctttgca gctaagatca cgaaactggg gacggcatta ttggggcggc 360

agctacggtg ggggtctcct ctgagtaggt cgagaagtcc tcggagtgcg gcacctat 420

taccagggcg gtcgaaggtc a 441

<210> 38887

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-016-Q1-K1-H8

<400> 38887



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 tgcgggagggc cttacagagg tcacggcggc ggggtgcgacg agcaccatgg taacggtggt 180  
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 gaccaccact ttcttcataa ggatagttag gatcatttct ttcataggga tggtagggat 300  
 catctcttca tctataggga tttctgggat catcatgaaa gtagggggcg ttgggggtcat 360  
 ctgttgntca tccacggcgg cggcaggcta aggagggatt gactggccct attgcactgg 420  
 acgttagaaa ggcgtcatgg cggaagttgt ttttt 455

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 <213> Zea mays  
 <223> Clone ID: LIB3069-016-Q1-K1-H9  
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 agctcgtcat cgtcggcgat ggtggaactg gtaaaactac atttgtgaag aggcattctca 180  
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 tcaccactaa ctgtggtatg atcaggttct actgctggga taccgcatgg caagagaagt 300  
 ttggtggcct cagggatgga tactatatcc atggccagtg tgcatcatc atgtttgatg 360  
 taacctcaag gcttacttac aagaatgttc ctacgtggca tatggatctg agcaggggtct 420  
 gtgaaaacat tccca 435

<210> 38889  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-017-Q1-K1-A1  
 <400> 38889

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ggggaagccg gggggccgcc gctaccta cccctctcgc cgtgctcctc cgcaccgtca 120  
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 acatcatctg tgcaacggat gggcggtcg ccgtcgagga tgcggccagt ggaagcccg 240  
 caatgctctc tagcttaggg gggcacggtg aggaagagca tgaggagaag gacaatgacg 300  
 acaagtacg cgagagcgag gtgatcaacc cgccagaaga cgctggcggg gaggccacct 360  
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<210> 38890  
 <211> 290  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-A10

<400> 38890

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 ccagcacttt ccatgtccgc tgaagtattt cacaggtagc tccagggaaa gtatgtggat 180  
 gctgaaggaa acgtgtgaaa gagtttccag tgggtgttctt ggatggcaag gtatgcatga 240  
 ccgtccctga gcaagtcaat tctacattgg ttggacggca attgagcgaa 290

<210> 38891  
 <211> 399  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-A11

<400> 38891

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 tctccggcgt cgacgacagg aagcccttcc tegtctcac cctcctctgt agcaccttat 180  
 ttaggctcat aagttagata gtctgtctg caatatggag aggatttctg actataaagt 240  
 caggagctag gcgggcatat gtgattctga tccttacatg tgtcgcattg caagaaagca 300

ctcgtattgt gtcttggatg ctttacaaga taatcgacta gatgctagat gcttttgctg 360  
 atagaatatg taagccacgt cttagatcga ctgacaaga 399

<210> 38892  
 <211> 339  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-A12

<400> 38892

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 tggagggttaa tactaacaca acatagctac gggaagacat tgaaaacctt ataaaaagca 180  
 aacttggaat gaacctccct ttgataatgg ttggtgccac gctagttttg gaaagatggc 240  
 aggatcgata agactatcag acggtagatt atgctttaa cctcgaaaag gtcttggctg 300  
 aacttccagc tgcaggtcta aatggtacaa cacttacag 339

<210> 38893  
 <211> 343  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-A2

<400> 38893

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 tgattacata acatgaacca aaggctaatt acgtccatga acgacaccgg cgatgcacga 180  
 tgaggacatt aacattgcaa ctgatgcatg catatgcagg aaatgatgcc aacagccaga 240  
 ataccgaaat gctctttata tgaggtaggt caagtgaaga agagcatgag gataacgaca 300  
 cagaaaacaa gtccagagac aactaggcga tcaacccgac ata 343

<210> 38894  
 <211> 241  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-A3

<400> 38894

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gaagatttcc cacggtgatt ttcatacgct ttactatgcc atgtaccttc aagtcagcac 180  
aatcaatcag ggcccttaac ttacacggtc tcgcaggctc gcaactggtc atttgtgtac 240  
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<210> 38895

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-H11

<400> 38895

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cggagccaat gtctctgagg tggcttacgc cgtgggcaag gacacgagaa ttggccccaa 180  
gttctgaac gccagtgttg ggttcgggtg ctcatgcttc cagaaggaca tcctgaacct 240  
ggtgtacatc tgcgagtgc aaggcctgcc cgagggtggc aactactgga agcaggatgat 300  
caagatcaac gactaccaga agagccggtt cgtgaaccgc gtcgtggcct gcatgttcaa 360  
caccgtcgac ggcaagaaag atcgccggtc ctcggcttcg cctttcaaga aggacaccgg 420  
ttgacaccag 430

<210> 38896

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-F8

<400> 38896

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ggcaggcgct cgctctctcc ggcggtcggc cgtaatggct acggtgatgc tgctctgctg 180  
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 tccggattag gagtcggata ctatgcgggg tgatgggtgg ggtaaggctt ccgataatgg 300  
 gtggtcgtcg atgtcgtgt cggtattgat gcttgggtctt gggccttagc tttggtatga 360  
 gcattcgcct ggtaagactg atacgt 386

<210> 38897  
 <211> 216  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-F9

<400> 38897

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 cctaaaagcc aaaaaataa gcgattcatt tttagccctt ataaaatgat aacggattct 180  
 tgaacctatt acacgtcat gtcacgtcta ggtact 216

<210> 38898  
 <211> 430  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-016-Q1-K1-G1

<400> 38898

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 cttctttgtt gttgttggtg atacgggtgg gggttgtgtg taggcgaata aggtttataa 180  
 gagttgtcct gtgcttaagg tcctttgtta tatgtataag actgataagg ctaggagtgg 240  
 gaagctagag attagttatt gtgttgctgc aaaggggggt tgtgttgntt gtacttagta 300  
 gagtaagggt acttgcgaca aaaaatgcgt cgtcccgtcg aaggagaagt gtctgctaata 360  
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tggactatcc

430

<210> 38899

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-G10

<400> 38899

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tatgttgta atgacctaa tgcatttctc taccaccagc actcttgccc aagcatggta 180  
gaccatttgt gtttaatgtt cattacatgc taataaaaga tactgggtggg aagggttaagg 240  
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<210> 38900

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-G11

<400> 38900

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tcgagatgcc cgcacccgac ggggtggacca agaagtttac tcccttgaga ggggggagat 180  
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ataccccaag gcgttctgct cgtattagcg agaaagtcaa ggtatttgat agcccagagg 360  
gcgagaagat cccgaagcgc agcaggaact ccagtggtag gaagggtaag caggggaaga 420  
aagaaacccc tgagaccgaa gaagccaaa 449

<210> 38901

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-G12

<400> 38901

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aaatccaaaa tcctgaaacc agttggaaaa catggcgccc cagagaacag cagcaaacca 180  
gaccatttgc ctagctacaa gagacggcta gacaggagag gtttccctgc tgaactctct 240  
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acagaaatct gtggcagtct agccccgtta cagctcgaag cgagaagtgc tttccaaccg 360  
agtactgcag cgtcacacaag aaatg 385

<210> 38902

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-G2

<400> 38902

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tcctaact aagaacgac ctaatttcga ggaggaagag gagacttgta gggagaatta 180  
gcgggttcct gagcaaggag gcgtcggact caccgacgtt caagcccggc ggcgctcatc 240  
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gaacgctctg tgcaagatcc acgcggctaa cggtggcca ccaatccacc attacgaaag 360  
tatcccgtc gtcgtttcaa gagggccagc tttaccgta cca 403

<210> 38903

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-G3

<400> 38903

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agataacata aaaacgctaa aagtattcta cgggagagga ctccgaaatg ccgaactcta 180  
aagagtccta gtaatcagag tagtagtcgg agagcctatc gaaatacact agaattagga 240  
agagttagtc cacgtctgag ctaaccctgg agtcttaatg gaaggagaag ctgtcgtagg 300  
aggagaataa ggcctcgtag aaggagtctg tggagaagta gaaagttag tggaagtaag 360  
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aagtcgtttt aataataaac aaccc 445

<210> 38904  
<211> 424  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-016-Q1-K1-G4  
<400> 38904

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cggcggatga tacgtttact agggatcctt gtaattcgga gagtaagggg gcggtgcctt 180  
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agtc 424

<210> 38905  
<211> 192  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-016-Q1-K1-G5  
<400> 38905

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cacacacatt acgaaagtcg tcatagatgc ataactatgt actgcagaag ttcaaatata 180  
tccactcaga tt 192

<210> 38906  
<211> 443  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-016-Q1-K1-G6  
  
<400> 38906

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cccacgaaga gacctctcac acggtcggct agtcgggggc cgatttcttc ataacgaagt 180  
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<210> 38907  
<211> 405  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-016-Q1-K1-G7  
  
<400> 38907

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<210> 38908  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-G8

<400> 38908

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 cgtaaatttc gacattgcgc ccgaagcggc ttctgactcc gacaaatata agtgacacga 180  
 gcgggacacg ccgatagtcg acccgaggcc ggcggaaaga accgacggac atcatgacgc 240  
 ggcccacgga attcacgaat ttaaaccacc aaaccggcgg aaacttaaca aggaccccg 300  
 ccctctctga taacggccct gcggataaga cggagtacac attaccccg agatcttcgt 360  
 cggctacaat aaaagattct taaagtacgg tcatgagtga ataaagacta atttactaat 420  
 acgggaaaca aggatcccg acat 444

<210> 38909  
 <211> 333  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-G9

<400> 38909

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 agacttcaga gaatttaatt gcgtatacga gagtaaagt agctgatttt ggtctagctg 240  
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 tatataaatt tcctgaagtc tgtgtcttcg etc 333

<210> 38910  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-H1

<400> 38910

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catgtacgag gactgtgact aagattgtgg aagtgccgta gcattcgtac ctgctggaaa 180  
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cattgaagtc tattgagcct ctgaggctac gcatgtcgcc taagaagagt gagatcatcc 300  
tcgccgccgg cgtcggagcg acgactatcg gtagttcctc agagaaagtc tcgaatgatg 360  
at ttgtgtttg tcatggctcg gcgccgacga attcggagag tgatgcgcat aggcctgggtg 420  
gtgcttcgac ggtgt 435

<210> 38911

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-H10

<400> 38911

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gtgccgcccc gagaacgttg ccttccctcaa ctgcaagaag aaggacccta accccgagaa 180  
gtgcctcgag aagggccgcc aggtcacacg ctgcgtcctc agcctgttga aagaacttca 240  
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<210> 38912

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-F7

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gttcagctcc acggaatact cttattcgtc catogtcaaa gtcccgttca caaaaccgca 120  
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accctccccg cattgcggag cggtcgtac tcacgccaca catcggcggtt acagcaaccc 240  
ctagaagtat agcgaagagc ccccaccacc cctacccccg ccgcatctcg atacgcgagt 300  
ttcacaagca cggtaacccc ggtatggccc cgtagcagaa aaaaaaaaaa tcgaaaaaaaa 360  
aaaaggggtg ttgtctcaga ggacttaagt ccatgcatgt gcgtacgtga tgctacagtc 420  
tcctcac 427

<210> 38913  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-016-Q1-K1-E3  
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cgagctacgt cagaataaag ggcctcataa gggccaaatc ctataggga cgggtcgtac 180  
cgtcggaaga ggagtccttc tgtaggggaa tcctagcgcc attagtgggc gaataacccg 240  
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ccgccacgaa cattcctccg gaaaaagacg aagacgacaa gcggaagggt acgggaaatt 360  
aagagtcttc cgaccacccc ggagaacacg aagtaagcaa agtatgctac gttcacggct 420  
ttctcgggta ttgcggcac 439

<210> 38914  
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<213> Zea mays  
<223> Clone ID: LIB3069-016-Q1-K1-E4  
<400> 38914

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actcgaccac gtctctacgg ctcgcacgcg cgcacggccg gatttaataa cacctccgta 180  
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gtcagctcca cccctccga ccctctccg tccctcgga ttacatgaac taacaagaaa 300  
cgagtcgcgc ctatccctta aaaaaaaaaa aaaagaaaaa aagaaaaata caataaatac 360  
aaaaaaaaa aaaaagggtg gttgtctcag aggacttaag tccatgcatg tgcgtacgtg 420  
atgctacagt ctctt 435

<210> 38915

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-E5

<400> 38915

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taaggaacgg acgaagagct gggtcataaa aatatcgctg aggggtacaat cgggactact 180  
ctgaaaatta ctctaaagaa agggacgtcc gaagcgcata atctcccag tgaggaaggt 240  
aaaaaggagc ctaataaggt ccacagtgtg ctgccccatt tacgtacgga cacatctcat 300  
gaacgtcacg aagacgcggt tctcggaagc gaaacttgga gtgcggcgcc ggtcgggtgg 360  
atgccccacg agaaa 375

<210> 38916

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-E6

<400> 38916

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tgctttgtgc tgttctgggt tcttcttgtt gttgtgttgg tggtatatca gggtcttcaa 180  
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tcgaacgtct aaactcgttg agaagacgtc accatccatt caactttctc ttacattaag 300  
cccggagcag gctacccgtc ctagataatg gagataagcc cgaggtcgcc gcgtttccta 360  
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ctgaggtcga cgaattcaca 440

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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-016-Q1-K1-E7  
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taatattgcc catccgaaga tgagcatgac gaacacatcg taataaataa caatgtcgtc 180  
gcgccccggt gtctcacacc ctgcaccccg acggtttcct cgtcttcgag gtacataccg 240  
attaccatca atagcgacga cgaagacgac gtactcgta cccctctgtc accctccccg 300  
agagttgtcg gacccccgtc gttacgtcac accacgggtc gggtcaccag cactacgtag 360  
tgctaaagat aaagatagga agaagtaacg tcgccattaa tggaagcggg gactacct 418

<210> 38918  
<211> 432  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-016-Q1-K1-E8  
<400> 38918

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acgttactac cgccacggac gacgcagaca cttagtcagt cgcgtagctc gctccgcctg 180  
tcgtcgccgg catagtagga taatgtcgta ttatacgtg caggtcgacc tcctacgaga 240  
atacacacta aattccttcc gactagtccg ccgaggcaca taaataagct tgaaccgggg 300  
acttgccgga gaaaggatt ccatcgggat tatcgtatat cttegtccta aaagagaatc 360

ccccgaaagg tacctagatc actaaactct agggagggaa aacttcccc ggaggactcg 420  
 ttaccgaact ag 432

<210> 38919  
 <211> 441  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-E9

<400> 38919

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 gctcgtctgt tgtaggggtc gatggcagag agggagcatc gaacagtatt tgtcacggtg 180  
 gggaccacgt gctttgatgc ccttgtcatg gccgtagatt ctccggaagt gaagaaggct 240  
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 tccaagggtca gtacgcttgt acctctgtag taaactaaca actatttaac tcctgtctac 360  
 tagtttgcat tatgacaatc tgtactcttt cttatagggg tggtcgtaac tgggtgattta 420  
 agtcaccta aatgaaaagg c 441

<210> 38920  
 <211> 441  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-F1

<400> 38920

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 gagtcaaggc cgaaagaaca gtaccagaaa ggactattct agtatgctaa agagtacttg 180  
 tagaagttta tgagaaagaa gagaaggtaa ttgtctaagt agtctcggag taggtcctaa 240  
 gggaagtcag aacgaaagta gaatgcgtag ttgccgagag agtaatcgtc gaagtctggg 300  
 agagggtaac cgaaaaggta aaagtcgtcg tagacgtaaa ggagtgaacc gggaagccta 360  
 ggcttctccc taaggacagc cccaaagtat tcaactagga taactaatac gaggtactac 420

tctagaagat ggtccacaac a

441

<210> 38921

<211> 162

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-F10

<400> 38921

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agaaaaaaaa aaaaaaaaaa agggaaaaaa aaaaaaaaca aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa acaaacacaa aataaataaa aaatcagcac cc 162

<210> 38922

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-F11

<400> 38922

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gcattcagtt tatgccactg cacttccttc gtgcgcatcct agttttttctc ttcaacaagt 120

ccttgagatg tcagaaaagt ggaggtctcg gccactacca aaaggccccg tttccctttt 180

cattggaata ctgtctgcat caaatcatth cgctgagcgc atggctgtga ggaaaacatg 240

gatgcaggct ccagaaatta agtcttttga agccgtggct cgattctttg ttgcactgaa 300

ttcaaggaaa gaggtcaatg taatgttgaa gaaagaagca gaatacttcg gagacattgt 360

cattttgcc a tttatagacc gctatgagct ggggtgttctt aagacaattg ctatctgtga 420

gtatggggtc cagaacttga ctgctgcaaa ca 452

<210> 38923

<211> 439

<212> DNA

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<400> 38923



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 ctgtgtcggc ggtggttgat atccttggtg cgtagagcac ctctgcttat aagattgatg 180  
 aggataaggc gacggcgtct gatctgtaaa agtcgacggg tgccttaggg gagttcggcg 240  
 actgggcgta acccatggag cctacataga agaattcata ttgcattag ccttggaata 300  
 ttactttgtc tctaattgtt gttgttgta atcctatatg tggatgaatct gttatagttt 360  
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 tcctttctca tcatactga 439

<210> 38924  
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 <213> Zea mays  
 <223> Clone ID: LIB3069-016-Q1-K1-F3  
 <400> 38924

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 acattttaag cttaggcatc gttgcggcgc tttcgatttt aagactagga ctcatgacgc 180  
 cggtacgaag agaaagggcg ccgacgagcc ttttcacgc gcgtattccg ctctccggga 240  
 gaaggagaac gctcttagcg aggtctccga ggtcgtttgc accgttcgta ataagcatac 300  
 gattaagctc gtaggaaagg acgttcctta ttctgggct tgggcctatt ttcttacgc 360  
 ttctgcact aataagacgt cctgcgcgt cggggtcgac aggtcttaga tcggaacgaa 420  
 gggcgttccc ggta 434

<210> 38925  
 <211> 443  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 cgtttgtcga atgtgtctaa gcctgggtgcg cgtgttgacg cgtctgggtc tgctaaaggt 300  
 gaggccggta aggcgttcgt tgagttgcgt cgcatttcta ctaaagggtc cgtggatcct 360  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-016-Q1-K1-F5  
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 tttaaacgtg acaagcgcgg tactaataat tcccgtttcc tcgtcccca ggaactacta 180  
 agtttaacct taaagtaaaa gaaaataagg ctcttacaga atctcgatcg cgatccgctc 240  
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 ccccggttag ccaccgccg actattccgg cgttgcattha ccggtacccg gtaagctacg 360  
 cacactacc cgcacattgg caaacgcct aagatggcac gaagatatgt ccactcatta 420  
 gccatcgcaa aaagcatcgg caaaaa 446

<210> 38927  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-016-Q1-K1-F6  
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 tattgtgttt ctttctgttc ctttgttgta gttcctgttg ctgtcgggtgc atcgggggtcg 360  
 tcatggtgtg ggggtgttgc ctgggtgtaa ggtggtggag gatatggagt tggcgtggcg 420  
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<210> 38928

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-E2

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 acaaaaaaaaa aaaaagggtg gttgtctcag aggacttaag tccatgcatg tgcgtacgtc 360  
 atgctacagt ctctcacag cgctattcaa acctaacctc tcggttgctg ccccataatg 420  
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<210> 38929

<211> 418

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-016-Q1-K1-D1

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tgcttagtgg tagtaatgag acgacggcga ggaatcttat taagcctgat gctgagaggt 180  
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 ctagtgatcc cggtagctan gttctccgtc tataagagga ggaggaggat ggcaacaaca 360  
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<210> 38930

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-D10

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 gtgcctttat gtatttggtt tctgctgggt gtacattatc aagattagag acgcagaaca 360  
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<210> 38931

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-D11

<400> 38931

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 gcctcgccgg cggccacgcg cctggcgctc gccgcctgcg cgggcgagaa gttcccggcg 180  
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 gtggcgctgg cggaggccgg ggccgcggcg cccgcctgtc ggacgtacaa catcacgggg 420  
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<210> 38932

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-D12

<400> 38932

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<210> 38933

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-D2

<400> 38933

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 tccgaagtaa gaagtactaa tggcatttta cgatctactt ctggaatgga aggggcggtt 240  
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agataaggct tagctcgca cggagagatc gtggaaaata gccattaatt ccaagtagtg 360  
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 ccgagccggc ggac 434

<210> 38934  
 <211> 435  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-016-Q1-K1-D3  
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<210> 38935  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-016-Q1-K1-D4  
 <400> 38935

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 agtaagatgt ac 192

<210> 38936  
 <211> 424

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-016-Q1-K1-D5  
  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-016-Q1-K1-D6  
  
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 cgatccatca gagaccgaaa tttttctaac ttggtctaac atacacggac cggggccgaa 300  
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 atcagagaag agcaaacgac gccctcacat aagtatcgac actgagggaa cgctcacct 420  
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<223> Clone ID: LIB3069-016-Q1-K1-D7

<400> 38938

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cgtactcaga gaatgcctga tcgcagtata gacttcaagg catctaacgg gtactgtcgt 180  
acacgttctt gtgggtgcgtc tgtatagga gtgtctgtct aatagtctcg tgtacctacg 240  
tagacgaatg gtacgctatt cgtaatc 267

<210> 38939

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-D8

<400> 38939

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ccttcttctt tagtccgcgc ccgtattaac cgacgagtac cctttagacg acgtcttacc 180  
gacctcctc ggtccctgcg ctacattatc cgacgcgaaa atagacggcg cacttctcgg 240  
caggatgtca gacccggtac tcagctccga cgcgggtctc gtcgtatttt aagttctagg 300  
ggacgtactc ttagacgate gtaacccgag actcgcgtcg ataactgttc cctaaccttt 360  
gcacgagacg tattcctagg atagtccgt agtaacggtt tgctaacacg cctgcagcgc 420  
tacctcgtc gcgtaaagag c 441

<210> 38940

<211> 444

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-016-Q1-K1-E1

<400> 38940

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cgtccatcta cgttctgagc aaacctgatt atatttagag agtaaccgtt attttaacgc 120  
 cccgaacaaa aaaagaaatc ttaatctgac ctacagacct ctatctagaa tcgtcgtatg 180  
 ctgtagcgta ggtgcgcgct cggtcctggt tagtcctccc ccccggtcgc gaccgcgtatg 240  
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 aaaaaaaaaa aaaaaaaagg gtggttgtct cagaggactt aagtccatgc atgtgcgtac 360  
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 atgcngcgat cgggaaaatt tttt 444

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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-016-Q1-K1-E10  
 <400> 38941

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 cccacatatt accaaagact caagcacatg gtggatgaca agatacattc gagaggacgt 180  
 ggtcctgtgc agatactcac ccggcaacca gcagaggggc ggtctcgtga tggaggtctc 240  
 cgctttggag aaatggaaag ggattgtatg atcgcacatg gagcagcttt cttcctgaag 300  
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 atcgcaattg cttaacctaa agaaa 385

<210> 38942  
 <211> 457  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 38942

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 caacccaatc gtcgagatgg acggtgatga gatgaccagg gtattctggc agtctatcaa 180

ggacaagctt atcctcccat ttctggacct ggacatcaag tactatgatt tggggatact 240  
gcaccgtgaa gcaactgatg acatggtcac agtggaagct gcagaggcta ctctcaagta 300  
caacgtggct attaagtgtg cgaccattac tccagatgaa actcgggtta aggagttcaa 360  
tctgaaacac atgtggaaga gcccaaatgg cacaattagg aacattataa atggcactgt 420  
gttcagagag cctattatat gcanaaacgt tccaaga 457

<210> 38943

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-E12

<400> 38943

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actcattgcc tggagtttcc tgggagcgga agcgaaggct gtgaaggagg ggaaggcctt 120  
gctcgccgcy aagactacgg ctgccaaagc cgccgagaag gacaagggga agaaggcccc 180  
aatctcacgc tcctcccgag ccggcctcca gttccctgtt gggcgatatcc accgtcagct 240  
gaagcaaagg act 253

<210> 38944

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-C8

<400> 38944

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gaaggttacg gattatgata ggtttccata cggcgaccgg cgacggcggc gaccgaattc 180  
cgccatccgc cagtaatcgg taccgaacct gttgagtatg ctggtcaccc tgcggaggc 240  
gacgggttat tagtcataca ccctatagga cttaaattctt aagtattacg ggattatggc 300  
tcgggacgta ctaacggcgc ccgctaagcc cccggaaaag aacagtagaa aaggctgtcc 360  
ccgcttgctt aaatcaaaag gaaagagagc gaccgaaccg ggagtcggtc gtggctcact 420

cgggcctgga acg

433

<210> 38945

<211> 438

<212> DNA

<213> Zea mays

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<400> 38945

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ctaatagagc cataacttcg atcgataagc ccgggtaatt aaaaggcccc gtccatgcgg 180  
aaccgcgga agccgaagtc gcctaggaag tcactaagcc gaatgagcta gagccgtatg 240  
gctgttaatc taaggcggta ttgaagagga tcaatgcctt cgggacgaag taattttgtg 300  
gctgaggccc taacttgcac tacgggttatt ttcatacgag gttgcacggc cacagcttcc 360  
acggccacgg gagacctttt agaccttggt gtttgtgaag attccacccc cgaagtctgg 420  
cctttaccgc gtagaata 438

<210> 38946

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-B4

<400> 38946

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ttctcctctg ctcagactcg agttcttggt cgctccctgg actagacgtc eggcttgact 180  
gaataatggc gagctccgtc tcgccacccg accgcctcaa atgtacggcc ccgccccgc 240  
gacgacgct aggccttgac tcgccctgcc cgaccgacga gccgatgtac tggctctgaaa 300  
tgaggtcgta cggccccgc gttcggaggc cctcgaccag tgcgccaag gaaatcgggc 360  
gttataaccc gccgtcagaa gcgtctgact tgctgaaccg acactcgttg agtcgtgatg 420  
ccttggggga ctcc 434

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 <211> 406  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-016-Q1-K1-B5  
  
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 gaaaatttcg gtgccattta atccaactgt tccgtagtat actttttccc tgtagtcgg 180  
 tgcaacagtg aagaggtttg tattgactgt ttcctttaat agccgtgtag ttcgaacggg 240  
 gaacgggatg tgtttcgcag tgggtgtacca agtgtgggtg gcgcggcggc catgtgtagt 300  
 gcgattgtca tatccgttag tgtttcagtg tttgtcttcc ctgtccctcc tttccatccc 360  
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<210> 38948  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-016-Q1-K1-B6  
  
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 cggtagcata acagatatat caaaaacaca cgtcgaaagc tagaaataaa acataacaga 180  
 gccgcgaaga aggcaccccc gataatcacg tactgcattc actccggcgg tgaaactaat 240  
 cctatcgacg gactcaccaa tttaaaactc atagcgggaa tcttcgtaca taccgtctac 300  
 gaggcctcct cggagaagga acataacgga aaggccgtcg acgcgcggct acgtggagcg 360  
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<210> 38949  
 <211> 224

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-B7

<400> 38949

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 acgtgcaaaa aaaaaaaagg gcacaaacag aaaaaaaaaa aaaggggggg tgtctcacag 180  
 gggtttaatc cctacatgtg cgcacacgat agcgcacact cccc 224

<210> 38950  
 <211> 290  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-B8

<400> 38950

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 acagcttcta cactcagtcg tcgtcgacca ctacacaatt cttcacggtt agacacataa 180  
 ttcgatacgg cttctcgcaa gtcgaacgtc acgaatgtct agcccctcga cctttaagcc 240  
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<210> 38951  
 <211> 162  
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 <213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-B9

<400> 38951

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<210> 38952  
 <211> 405

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-016-Q1-K1-C1  
  
 <400> 38952  
  
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 ctgatgaaga cgaaccgacc gtctcgaacg tccgggtctg cacaggctgt taaataagag 300  
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 <211> 405  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-016-Q1-K1-C11  
  
 <400> 38953  
  
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 aaccgctgct gctattgcct atggctcttga caagaaggca accagtgtct gtgagaagaa 180  
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 <213> Zea mays  
  
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 <213> Zea mays  
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 agacacataa ttcgacctcg ctcgtaagaa gtcgggctta aagcatgtcc acaccttaga 240  
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 gatcgccagg tcagcagcaa gtcataacgg ctctagtacc ggtatagcct gagacgtacc 360  
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<210> 38956  
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 <213> Zea mays  
 <223> Clone ID: LIB3069-016-Q1-K1-C3  
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<223> Clone ID: LIB3069-016-Q1-K1-C4  
  
<400> 38957

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<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-016-Q1-K1-C5  
  
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ggattaatca ttatcctcag ttgggacctc ccgctagtcc cactacacct accgttcgtc 360  
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449

<210> 38959

<211> 445

<212> DNA

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<400> 38959

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cgcaacgggg ccataatag caacaatccg tagagcgacg caagtgagcc gccgagtagc 420  
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<210> 38960

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-C7

<400> 38960

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cagtgggtga ccaagtgtgg tgggcgcggc ggccatgtgt agtgcgattg tcatatccgt 420  
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<210> 38961  
 <211> 428  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 38961

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 agagtctggc gaggcgtata gttctgaggg tgatgaggag ggcggttaag gaggaagagt 360  
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<210> 38962  
 <211> 407  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-015-Q1-K1-H7  
  
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 ctccattact aaggatgaca ttaaggtctt cgccgcggtg ccgtcgaagc ctggcgctga 240  
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 tggttaaggct gttggtgtaa atctgcctgc gggatcagct cctgcggcag ctgctcctgc 360  
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<210> 38963

<211> 452  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-015-Q1-K1-H8  
  
 <400> 38963

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 ttgtgatcga tcacgtacgc gcgcaattc tcttctgtac aataccacac gtaaattaac 360  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-016-Q1-K1-A1  
  
 <400> 38964

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 cttcgtctcc cggtaacccc cctatcttct ttactgaacc gctaacttag gaactccttt 180  
 gagacctgtc cgtttatttc cctccccta agcggactcg aatccgggag ggaattttga 240  
 cgtagttgtg gcatggagaa gtatgatagt tgcgttggg gtggcatgtg tcgcattatc 300  
 ctggtattag tgggtgtgtt gctgttgtt ttattgttgc gatttacttg cctgacgcca 360  
 ctaaagctag gtcctaaacg tagtccgtcg ggtaaagaag aaatccagcc ggaacggcat 420  
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<210> 38965  
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<212> DNA  
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 agaacatccg gaaattgggt aaggatgggt ttatcatcag gaagcctcag aaggttcact 180  
 ctaggtcccg tgcaagaagg gcacatgagg ccaagcagaa gggaaggcac tctggatacg 240  
 gcaagcgcag gggtagcagg gaggctaggc tccccaccaa gattctgtgg atgaggagga 300  
 tgcgtgttct gaagcgctg ctccgcaagt accgtgaggc caagaagatt gacaagcaca 360  
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 tggag 425

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 <211> 152  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-016-Q1-K1-A11  
  
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<210> 38967  
 <211> 430  
 <212> DNA  
 <213> Zea mays  
  
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 agcctcggac taaacggcaa tggttgggaa taaattggca aactcgaaag ttagcgacct 120  
 tattactgag agcctgagat atgaaccag cacataggcc cgcccctcgg agaccgaaga 180

ggggacagcg tatacagaaa aatcgcttat cgcggccac tgagaccca gccgacatcg 240  
 ttgaagcaca accgcgtaga ctgtaagacc ggccgctcgt cacgtccacc gtccacggta 300  
 cgaccctctg ctaagccgca tccgagctag caccctcgta tggtcaccaa ctctcatatg 360  
 gcatctcgcc taaaaaaaaa aaaaaaaggg tggttgtctc agaggactta agtccatgca 420  
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<210> 38968  
 <211> 321  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-A3

<400> 38968

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 acgtgataat acaatcaact cacagcgtaa tccaaacca acctaaccgt tgatggcaca 180  
 taatatacag atcaatcaaa tttcgggtgcc aactaatcca acagttcact tctatacatc 240  
 tccccgtta atacgtgcaa aatttaacag cttcgcacgt actgtccact ttactagccg 300  
 tttagatcga acgttcaacc g 321

<210> 38969  
 <211> 292  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-A4

<400> 38969

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 ggctgtggtg gtgggtggctt cggtagtggt gtcgtcgtcg tcgggtgggtg gggttgggat 180  
 ggtgctggtg gtggcgagtc gtgggtgaggc gatgctgctg gcgggtgttgc gttctgggca 240  
 tgtgacgggt agtggtgtgc tgtttcttct ggtgcgtcgt agtggggcgt gt 292

<210> 38970  
<211> 429  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-A5

<400> 38970

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ttaaaagtgc gtactctagc ctgcctatgt acgcacatct cgtatcctaa aggatacgcc 180  
ctagagccaa gatcatatcg aaaaatcgtc gcggagcact acaatactgc cccgcttcac 240  
ctgacgtagg cgatgaccgt actcttactt agataggacg tagtaatata aacacatata 300  
atgcgaaccg cggattaagt tacggaacta gtacaggcgg atcagggtga gataatataa 360  
aagtacgtgc actaaacgcc atagcaagag acgctaatac gcctagaatt acgaacggcg 420  
ctagaacta 429

<210> 38971  
<211> 426  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-A6

<400> 38971

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ggtgttcgtc gttgatgtga agttcgttaa ggttaacaag gttattgcgt tcaagaagtg 180  
tgtagtttg atttatgtt tgcattgtga gacggctctg gaggtgacta tgctgtctaa 240  
ggagaggatg gggcttagta gtcattgtac cgttaagcct gcggaggata agtataaggt 300  
taagtctacg tttaatcctt gtaagtcttc gaatgcctag tctaagaagt ctgctgttgg 360  
tcgtaagtcg attaaggcgc agaattctga taagtcgctg catgttatcc agttgaactt 420  
taagtt 426

<210> 38972  
<211> 435

<212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 38972

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 gtgctagtcg tctgtaatgt gtctctgtta ctgggtcgtc ggattgtcgt ggtgatgtga 180  
 attgcgatga gggtgtttcg ttgtattttg ttgatgttag aggtctgtgg tgtttctctg 240  
 ttgtaattgg gtcgttgtat tgcgtgggtg aggtgaattg ggatgagggt gtttcattgg 300  
 ttttcgtggc cgtgggtggc ttgttgtctt gtggggatag gcgtattcgt cttagcgttt 360  
 ggagtcggag tcttgatggg cagctttgga tgtatatgac ttgngtgggt gtgtttgcgg 420  
 cttatccgaa tgata 435

<210> 38973  
 <211> 440  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-016-Q1-K1-A8  
 <400> 38973

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 aactattacg ccaccatgag gggccgggga aaattcacct aaaatctacc catttccac 120  
 cccaaaacta aagtatatc tataccattc cccgtattac cgggagccac gaagtaccg 180  
 ttcgctcaac cctacgtgaa agggttcata gtcgagccgg tcatgcggca cgagcagtat 240  
 cttccaggct tcgaaccag tctcgtacgg gagtaaacc gagcacgact taaaataact 300  
 tgtctgctcg ctttatgtta aagtataagc tcaacgtctg gtttcgactg cggacggcta 360  
 gtgacgtacg ggctgcggg ggccctcaga tccgtgcgat gtcctccag cataacgcct 420  
 aaggtagct cgatcccccc 440

<210> 38974  
 <211> 60  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-A9

<400> 38974

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<210> 38975

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-016-Q1-K1-B1

<400> 38975

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ttctcttcat tctatgtttt cgctatcgag gcgtgttgcg gagtccggta cttttatggt 180

gactcattgt taagggtggg tcgttctagt tgcgagtcg gctatgggtg cgctctcttt 240

tcttatcaag tcgttgccct cttgttggtc gtcgtgggtc tctgttggtc tgggtgcgcc 300

tattgctgat aagtagagta tggaggagga gtggcattgt actagttttg cgcttcattc 360

ttcggcgcat ggtactttct atgaggatta tacgaattat attgntcgg cgt 413

<210> 38976

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-016-Q1-K1-B10

<400> 38976

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gaggttaata ctaagacaac aaagctccgg gaagtcattg aaaaagttat aaaaagcaaa 180

cttggaatga acctcccttt gataatggtt ggtgccacgc tagtttttga ggatgggtgag 240

gatttggaag aggatgagat tgcaaattat gctttaaac tcgaaaaggt cttggctgaa 300



cttccagctc cagttctaaa tgggtacaaca cttacagtcg aggattttca tcangaacta 360  
 aaatgcagta ttaacatcaa acacagggac gagtttgatt aagaaaagga gcctgacgga 420  
 aatggttcttg gctgggtggtc tg 442

<210> 38977  
 <211> 320  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-016-Q1-K1-B11  
 <400> 38977

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 tgcaaattgt actatgcatt gtacatactt gtctgattgt aaaatgaaaa ttgcagactc 180  
 gtttatgaaa cagcttccgc atctagctgt ggaaaattac tgctgtgata tgccatatcc 240  
 tgacttgagc ttttctgagg tcacgtctgc cgttgtacat gataacctgt agcctcacat 300  
 accacgctgg tgccccgagct 320

<210> 38978  
 <211> 444  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 38978

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 agcggcgggcg gcaccgccgg aggcaaaggc aagatgttcg ggcgcgcgcc gaagaagagc 180  
 gacaacacca agtactacga gatcctcggt gtgcccagt cggcgtccca ggacgatctc 240  
 aagaaggcct accgcaaggc tgctatcaag aaccaccccg acaagggcg tgaccccgag 300  
 aagttcaagg agctcgaca agcctatgaa gttttgagtg atccagagaa acgtgagatn 360  
 tatgatcagt atggtgaaga tgcccttaag gaaggaatgg gccggtggag gacccatggt 420  
 gatccatttg acatcttctc atca 444

<210> 38979  
<211> 215  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-H6

<400> 38979

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ggaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaaaaaaaa ataaaaaaaaa aataaaaaaaaa 180  
aaacaaaaat ttataaaact taaaatatta aaaaaa 215

<210> 38980  
<211> 392  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-G10

<400> 38980

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gttgaggcgc tgcttcagcc tgcacccctc ccttgtctca tagatgctcc ttttgacctt 120  
ttcaaataaa tatggatggc gagctcctag gcctctggct tcctggtaga gggcggcattg 180  
ccgaaggggc tgctgggtgt ggattggatg ctgggggtgtg ggggttgga gctgtctgtg 240  
gcccacttgg gcaccacgc ttctgtccac ttctggttgc caggagacag caagcaaagc 300  
cagcaggaca tgaagttgct attaaatgga cttcgtgatt tttgttttgc actaaagttt 360  
ctgtgattta acaataaaat tctgttagcc ag 392

<210> 38981  
<211> 374  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-G11

<400> 38981

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agtcaatagc cctgtggca attgcaggac cagctggagc agggttgcgg tgtctccacg 120  
 gtgctctcgc cctgcccattg gccaccccag actctgatct ccaggaaccc catagcccct 180  
 ctccacctca ccccatgttg atgcccagg tcaactcttg taccgctgg gccccaaac 240  
 cccactgcc tctcttactt acccccatcc atcacctggt tttgactaat gctgcttccc 300  
 tctctgggccc tggctgccag gatcttgtgt ccctaagtcc ctctctttaa agaacttctg 360  
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<210> 38982  
 <211> 396  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-G12

<400> 38982

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 ccccttttgt attgctcacc ctcggtaaag agagagaggg ctgggaggaa aagtagttca 180  
 tctaggaaac tgtcctggga accaaacttc tgatttcttt tgcaaccctc tgcattccat 240  
 ctctatgagc caccattgga ttacacaatg acatggagaa tgggaccccg tttcactatg 300  
 ctgctggcca tgtggctagt gtgtggatca gaacccacc cccatgccac tattataggc 360  
 agccacggag gacggacagt gcctttgggt tttccg 396

<210> 38983  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-G2

<400> 38983

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 ttttcttggga aatgaattg ctttatggag aatctttccc agtttctgct gaagtgcttg 180  
 attctagttt ttgcctaccg attggcaaag ctaagataga acgtgggggt aaagatgtta 240

ccattactgc attctccaag atggttggt atgctctcca ggctgcagag atactgtcca 300  
 aggaaggaat cagtgtgag gtgatcaacc ttgatcgat cagaccactt gatagagctg 360  
 ctattaatgc atctgtcagg aaaaccaacc gattggtgac ttgtgaaaaa gggttcctca 420  
 acatggga 428

<210> 38984  
 <211> 333  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-015-Q1-K1-G3  
 <400> 38984

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 agatgggcga tccaacgca agcaggcatg ttgagcagtc actcgcggag gtggcagctc 180  
 agatcgagtc tgtgacagag aagatcataa tggaggagga gaaggtgaag aagtggaaag 240  
 cggagaacct gaggaggaag cataactacg tgcccttcct gttcaatttc ctcaagattc 300  
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<210> 38985  
 <211> 337  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 38985

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 tagtgaaca tcgcaggaag tatgagaggt tgagaaaaga gagggaggaa aagagagcgc 240  
 agcgtgatcg gcttcgtcaa cgtgcagagg cgcaggctgc ttacgacaag gccaaagagga 300  
 aggagcaatc gtcaagtcgc tcatacangag gtgcac 337

<210> 38986  
 <211> 266  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-015-Q1-K1-G5  
  
 <400> 38986  
  
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 aagagagtga atttgttttg agggcttaag gttgtgttgt gcgtgttgga ttggattgat 180  
 taaaattcgt agtttcgtac agttttgtca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240  
 aaacagaaac ggaaaaagaa atacaa 266

<210> 38987  
 <211> 455  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-015-Q1-K1-G6  
  
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 gcgaaagctg acgagctggt tttgggcttg acgaatcatg acctattcct gtactttggg 180  
 catggaagtg gaaccacagt tatttctagt aaggaagtcg agtagataga taactgcgca 240  
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 cgagggggccc cattatcata tttataggct ggttcccctg ctatcattgc gaatctctgg 360  
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<210> 38988  
 <211> 262  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-015-Q1-K1-G7

<400> 38988

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ggggcctcga cgacggcggt gacgttctac ctgaagctgc agggcggtgca cttctcactc 180  
ctgggtcacag actgcctaata tccatgctg ctgttcaagt tcaatatact ttgagacgca 240  
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<210> 38989

<211> 460

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-015-Q1-K1-G8

<400> 38989

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cagcaatgga ttatgatagc cacatgcaga ctactgtgaa ggtggaagat gaaaaaacag 180  
aggatgactt gccagttgct gacaatgatg tacagaaggt agagaaagag aagctaagga 240  
atgcaaagga tggttcagat aaacgaagga nagatgcctt attgaggagg ttatcggcgc 300  
caaggacccc actgaatgat gcacanaaac gtgcacagaa cctgcgtgca tataaggcag 360  
accttcagaa actgaagaaa gaacaggaag aagagcaaata aaagcgattg gagaggctca 420  
aattggagcg gcaaaaaggag atcgccgcan gaggtaatgg 460

<210> 38990

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-G9

<400> 38990

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gcgggggcacg gggccagcag cccgaggcca tccgcacggt gacctcggcc ctcaaggagc 240  
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 cggccctgga ggacgcagac ttcgacggca agcccatggt gctggtggcc ggccagtaca 360  
 gcacgggcaa gaccagcttc atccagtacc tgctggagca ggaggtgccc ggctcccgcg 420  
 tggggcctga gccc 434

<210> 38991  
 <211> 345  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-H1

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 ctctttcggg tgacaatggt ggcttcaacg tgaagaatgt tgctgtcaag gatctcaagc 180  
 gtggggtttgt ggcctccaac tccaaggatg accctgccaa ggaagctgcc agcttcacct 240  
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 actgccacac cttccacatc gctgtcaaa g ttgctgagct catta 345

<210> 38992  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-H10

<400> 38992  
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<210> 38993  
 <211> 415  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-H11

<400> 38993

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gctgaacgag aggagtgtag ccactatgc actcagcgac tccccagcgg accacatggg 180  
cttctcgcc acctgggggg gccaggggac cccaccgacc cccagtggca ctggccgaag 240  
atgctggttt gtcctcaagg gcaacctgct attctccttt gagagtcgag agggccgggc 300  
cccactgagc ctggtggtgc tggaaggctg cacagtggaa cttgccctaa gctcccgtgc 360  
ccaagagtt tgcctttgcc atctgctttg atgcccctgg agtgcgcca cacct 415

<210> 38994

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-H12

<400> 38994

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ggggacctgc gggggcggcg gggcagcgg gggctggggc gcgggggccc gaccatgagc 120  
cgctgagccg ggcaaaccct agggcaccga gccagcggac cctcgagcgc cagccctgag 180  
ccgcggagca ggctccaacc aggcggcgag gcgccacac gcaccgagcc agcgaccccc 240  
gggcgacgag cggcgccagg gagcgctacg atggaggcgc taatggcccg aggcgcgctc 300  
acgggtcccc tgaggcgct ctgtctgctg ggctgctgc tgagccacgc cgctc 354

<210> 38995

<211> 462

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-015-Q1-K1-H2

<400> 38995

gggatatact ggtctgtctt ttacaaagca tattccagta cgtccttaca gacataatga 60



gtatgagaga ttcataacat cagcgtaccc atactacacc gnetcatttt caacaatggg 120  
 tgctttcttc gtattctcgt ttgtgtacct gtaccacaaa taaaggactc atgggagcgc 180  
 acaagtctct ggaggctgac gtgaccaaga tctgtgggca ctgaatgttg tgctataagc 240  
 caagagttac ccggcgccaa ttttatggaa ccatgttttt gtactgcaa cttagataac 300  
 atttgacgac cgtgaccgca ctcatgggaa atttactcgt gctaggatgt tcgatctggc 360  
 cccacttcnt tttntcttg gaccctttct gatcagcact tgtcagaaac gttacagtct 420  
 atagcactga nacgtgattt tggaagtact acacccccag ta 462

<210> 38996  
 <211> 377  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-H3

<400> 38996

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 acaggggctg attgggtgat caaaccgcga agatttggtt ttgtgatttg ggagcaggag 180  
 gcggtggcaa tatgccttgc ccaactccgtt ttttgttgag ctggatggta gcttggcggt 240  
 cctaattttg gacctctggc ttaaaagcga aaaaaatacc cctgcaggaa tataaggcga 300  
 gatctactgg aacttcagga acttcgtcta aaagtttccg tgatctgtac aatatgaagt 360  
 actcgagcta cttaaac 377

<210> 38997  
 <211> 352  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-G1

<400> 38997

ggacgacacg cccatccggg tgtacgagaa cgccacgctg caccaaggcc acggccacgg 60  
 gcaccaccgg cacggcggcg cggcggcgga ggccaacggc accaacacca ccaccaccac 120  
 gctggctgct gccccggcgc cgttccccgg gccgcagccg atggccgtgt acagctccat 180

ctggaacgcg gacgactggg cgacgcaggg cgggcgcgtg aagacggact ggtcgcacgc 240  
gccgttcgag gccacgttcc gggaggtgcg cgtggacggg tgcgcctggg cgggcaacgc 300  
cacggacggc gacgccgcgg aggcgcgccg gtgcagcgag tcctcgtggg gc 352

<210> 38998  
<211> 444  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-015-Q1-K1-E2  
<400> 38998

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tcatgggata ctttggaac ggcaagactg gagaactggt ttagcagaag taaggcggtc 120  
aaggaggctc actgtgtcat ttatctgtac agttgcaaac tatgagtatg gtttttactg 180  
gcatttctat caggatggga aaatagaggc agaagtaaag cttactggaa ttctcagttt 240  
aggggccttg atgcctgcgg aatcgaggaa atatggcaca actattgccc ctggtctgta 300  
tgcaccagtt catcagcatt actttgttgc ccgtatggac atggctagtg attgcaaacc 360  
taatgaagct cataaccagg tggttgacgt taatgttaaa gtggaaagtg catgcacaca 420  
taatgtgcat aataatgctt tcta 444

<210> 38999  
<211> 372  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-015-Q1-K1-E3  
<400> 38999

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gcctgcagta ctactatctc ggttattata tacattcttg caataagatg agatacaaag 120  
ctgcatatcg accatcagaa cttctatgtc cactccgtta tgagtgggtt cgctatgatt 180  
tagccaagcc tctactggat gccagtcaat actccgttct atctgattat gctacaatgc 240  
aaggtgaagt gccccagcct cagatttgtg gtcctctga tgactcttca gcaaaagtgt 300  
accaccatga gtctcccagc gatgaggatg aggacgacga cgatgaagat ttcgacaact 360

atgaatcaga ta

372

<210> 39000  
<211> 451  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-E4

<400> 39000

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acgacgacca agtgcaccgc ctgcgacaag acggtgtacc ttgtggacaa gtcaccgcc 120  
gacaaccgca tctaccacaa ggcctgcttc cgctgccacc actgcaaggg caccctcaag 180  
ctcgccaact acaactcctt cgagggagtgc ctctactgca ggcctcactt cgaccagctg 240  
ttcaagagga cagggagctt ggacaagagc ttcgaaggaa ctccaaggt tgtcaagcca 300  
gaaagaaacg ttgggaatga gaatgctact aaagtctcaa gcgcctttgc tggcaccaga 360  
gagaaatgtg ttggatgcag caagacagtc tatccaactg agagggtcac tgtaataaac 420  
actatgtacc acaagagctg tttcaagtgc t 451

<210> 39001  
<211> 172  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-E5

<400> 39001

cccacgcgtc cgtttttttt tttttttttt tttttttttt tttttttttt tttttgattg 60  
gttttttttt attttttttt aatttttttt tttttcttaa tattatatatt aaaatttatt 120  
atttactatt aaaaaatcaa aaaaaaataa ttaaaagtca atccaatctt at 172

<210> 39002  
<211> 79  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-E6

<400> 39002

gaataacccg gaccgaccca ctcgccgcc caccatacg tacatttatt attttctttt 60  
 ttaccctatc ttcttttta 79

<210> 39003  
 <211> 407  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-E7

<400> 39003

cccacgcgtc cgcggactcg tgggcggact cttgggggtga tccggaacct ccctgagaag 60  
 tgcccttact agacaacact gccttatcct gcacctatc tggagcttct cctggcattt 120  
 atatggtgtc ttatggtttc ttgtctgctg ctgacaacgt tggcgcttaa gatatttgga 180  
 ataggactac accttccata gtttacgttg aactctgtgg tgctgaagca gctgttgcca 240  
 ttatggcgga aattgctgac gcctgattga acatgtacag tttttattca gttaaacaac 300  
 tggggcaaaaa agttagatgc tcatattcat cacacaaaat tgtacttgctc aggttattta 360  
 tatacgttac ctgaatacta tctatcactc taatatatta atcactc 407

<210> 39004  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-E9

<400> 39004

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 ggcagaagcc gagttcaaca tcgctcctgg ccaccgactc ctacaagggtt actcactata 120  
 aacaatatcc acccaacaca agcaaagttt attcctactt tgaatgccgt gaaaagaaga 180  
 cagaaaactc caaattaagg aaggtgaaat atgaggaaac agtattttat gggttgcagt 240  
 acattcttaa taagtactta aaaggtaaag tagtaaccaa agagaaaatc caggaagcca 300  
 aagatgtcta caaagaacat ttccaagatg atgtctttaa tgaaaaggga tggaactaca 360  
 ttcttgagaa gtatgatggg catcttccaa tagaaataaa agctgttcct gagggctttg 420  
 tcattcccag aggaaatggt ctct 444

<210> 39005  
<211> 369  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-F1

<400> 39005

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gagatgtact cggatcagat ctccaccggg cgcaagcgct ccatccatga ccgccttgac 120  
ggcgacctcc ctgccggcac gggcgccggc ggccgtgtcc gtcacacggt gtccaagagg 180  
caacgacaga tagatgaaaa atggaagcat gatctgtatc gggaagatga tgaaccagct 240  
tcaaaatcaa cagatccgaa ggatttgca ttgaagcttc agaggcgaag ttttcaacaa 300  
gattttacca gcacaagaag ttctggtgtg cgtgatctac gtgagaagct atctggtata 360  
atgaaccca 369

<210> 39006  
<211> 269  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-F11

<400> 39006

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gttcaaatta cttgtccact gaatgtcact tgaccttgat aagaggccgc ctgcacacag 120  
agcccagtta attctccgca cctcggttgt gtgcttccga atgggctcac tcccggtgtg 180  
gtgtttgaga gccacaaca ctacctcata gaccggtctt tgggaaactt tgggtctcac 240  
tgttgcctgg cttgagcact ttggtttat 269

<210> 39007  
<211> 348  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-F12

<400> 39007

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 ggttctaata cccctcccg cgttgtaaaa accacctcaa ttacctctt acaccaaag 120  
 aaacaccatt catcctccaa actctaagca tttctacaaa cacaaacttt tatttaactg 180  
 cttgtgatag actaatcgaa ctctacggtt tcacgtccct ttacaataac acgtacacca 240  
 aatcctctct ccttaccat caatcttctt agaacatgca ttgcaacaca aatgctgctc 300  
 tcgactacta tgtttcagtc aacaactact cctatgtctt cacattct 348

<210> 39008

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-F2

<400> 39008

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 tgctctcaat acacgacatg taccacacac catagctact gccacgcta accatgcac 120  
 caacaccagc cagactccca cttaaataac acctcactct taaaaatata gaccactcg 180  
 acaatcacia gaacgctttg acataccaac ttctggacct acgagcaaca aatattttta 240  
 ctggactat accacctcag attccactta caccctgcat cttctaacca aatctttctt 300  
 gaacgatacc cttcactact tgatcaacaa atttgcct 338

<210> 39009

<211> 213

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-F3

<400> 39009

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 ctaccacacc tctttcaaaa cgctcctaca aatacatcaa acatggacat atgaactata 120  
 tactcaacat cataaaccag atttactata tacacatgag acatacatta tactgacgca 180  
 ttatatacaa atttatcatc cacactctat cga 213

<210> 39010

<211> 348  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-015-Q1-K1-F4  
  
 <400> 39010  
  
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 tcgcggggga gccgacgcc gcgctgctgc gcacgtcgc cgcgtgcag gcgctgtccg 120  
 tgggcccgt ggtggacgc gccactgcgc cgctgcggtc gccggcggtg gccggcagcg 180  
 cgctgggccg ggccgccgcc agggccacgc cgtaccggca cttctgcgc gccgagaccg 240  
 ccggcgaggg cgcggcgccc gtgcgccgc tgtggcgcg cggcatgggc gggatcctcg 300  
 actacgggat cgaggacgcc gaggacggc gcgcgtgcga ccgcaacg 348

<210> 39011  
 <211> 182  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-015-Q1-K1-F5  
  
 <400> 39011  
  
 gtgcacctca agggcgactc gggggcgact cgctcgacc gccgcccca acccgaaag 60  
 cagtacagcc cggccgccgc cgcctctcct ccggctaccg gcggtggcag ccagcggcgg 120  
 cgccccaaaa agggcctgcc ccgcacctc tctctctc cctctctc ccaccaccc 180  
 ct 182

<210> 39012  
 <211> 324  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-015-Q1-K1-F6  
  
 <400> 39012  
  
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 gccaacagac tatgcatcag gtcaatggaa agcagggttg ggaggaaagg gagattgtcg 120  
 atgaaaggaa gcctacctct taaaaatagc gagccatctg ccaatgacaa gattgatttg 180

aaatgtgaag ttctggacat acgagcaaaa aatattttga gtggccaagt agacagccag 240  
 ctacaagtta caggctcaat tttgcgacca gatctttctg gaatgatccg gttgagtcac 300  
 ggtgaagcat atntgcctca tgat 324

<210> 39013  
 <211> 443  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-015-Q1-K1-F7  
 <400> 39013

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 caccgtcgac tgcaccaaga tcaactgac gatggaacca tagtggaggt agctcgctcg 180  
 ttggatggca gcgtacgtgg ccatcagcag catgcagtcg tcgtcgtagc agagatgtcc 240  
 tagctacgtg tgtgtcatgc atcagactgg cacataataa agaagtagat catgcaccca 300  
 ctagtgatca cttcgtctag tgtccctccg ttcaatgtcg tcgtcgtcgt cgtgtacctt 360  
 acgtgacatg ctgtagcacg tacgctagca gagcagcacc tcaatgtcct tgggtttgct 420  
 ttgctggctc tctggtttcg tct 443

<210> 39014  
 <211> 454  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-015-Q1-K1-E12  
 <400> 39014

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 aagaagccct ccgaggtttt ccggacagac ttgatcacag ccatgaagat cccggactca 180  
 taccagctca gcccgatga ctactacatc ctggcagacc catggcgaca ggaatgggag 240  
 aaaggtgtgc aggtgccttg ccgggcagag gccatcccag agcccggtgg gaggatcctc 300  
 ccaccactgg aaggcccccc tgcccaggca tccccgagca gcaccatgct tgggtgagggc 360



tcccagcctg attggccagg gggcagccgc tatgactggg acgagattga tgctactgg 420  
ctggagctca tcaactcgga gcttaaggag atgg 454

<210> 39015  
<211> 337  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-F8

<400> 39015

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gtgtgttcgt actaattaaa atgttcttgt cgtcgtcgtc tgtgcatgca tgtaccatgt 180  
cgtcgtgcat gtctattatg tgtgtgtcgt cgtgtcgatc ggtacgtata gatgcctgtt 240  
gttagcatgt gtgtcattac ctatcgtgtg gtagtgtatg tatgtgcttg ccgggcaaaa 300  
gttgcaccta gctaaacagt agtattactt tttaaaa 337

<210> 39016  
<211> 210  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-F9

<400> 39016

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caaaaataaa cccatctagg atctccatgc agacttgatc tcaatcacat agatccctta 180  
cttataccaa ctcattacaa caaactcctt 210

<210> 39017  
<211> 444  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-015-Q1-K1-C9

<400> 39017

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ggaagccctc tcaggaaacg ccgccaggac aggaagcaga ttggaggaga aaaaccgcaa 120

tcttcattcg cggaaaatcc aggtgcttat gggagcattt tcacagaata actagaataa 180

cgaggtatgt ggggtttttta agcaccgggg tgttaagtct tccttcaaga atcacctatt 240

gctgaaaggt tgtttttattc ggcggaagtt tcaacatgtc agagcagcct gccccgtccg 300

ggacaggttt caccgtcggg agacaacatg cctgtccttc gncctcccag ccacaacgtg 360

tccttctgtg cacgtttcag ctgaaacctt gcatttagtt ttctaactca gagggtttgt 420

caatctttta cctgcgaact cctg 444

<210> 39018

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-D1

<400> 39018

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agtagagaaa gatctccaaa aggaagttaa ttctgtaaac cagagactta atattgctat 120

cgaaaagggt aaagaacctt atagacaacc taatattctt gcggaatata tagctttcca 180

attaaaaaat agagtttcat tccgaaaagc aatgaaaaaa gctattgaat taactaaaaa 240

agcggatata aagggaataa aaatccaaat tgcgggtcgt ctagcaggaa aaagaaattg 300

cacgtgccga atgcatcata aagggtagac taccctcca aacaattcgc gctaaaattg 360

attattgctg ctatccaatt cgaactatc 389

<210> 39019

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-D10

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acacatccg caagttctta cccaccacc gcccgccaa caacaccacc acccctacaa 120  
ccacccacac cctattcaaa aacacaacat aacaaaacc aatctaccac caattttcca 180  
ccacaaacta ccatcaccac tccataccaa atccccaa cttacctatc caaccctaata 240  
actacaaact caaacatata ctaaatttac cacactcact caaccaaata acccacacac 300  
ttcacaacaa cctccatacc a 321

<210> 39020  
<211> 372  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-015-Q1-K1-D11

<400> 39020

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gccgcgcggg gccggccggc cggggggagg ggagcgatgc ggcgcggcg ggcggcagtg 180  
gccgcgggtt tctgcgccta cttcctgctg ggctccgtac tcaacgtgct cttcgctccg 240  
ggctcggagc ctncgaggcc aggccagtcc cctgagcctt cgccggcccc gggtcggggc 300  
cgtcgcggag gccgagggga gctggcccgg cagatccggg cgcgctacga tgaagtgcag 360  
cgctattccc gc 372

<210> 39021  
<211> 352  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-D12

<400> 39021

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tcccagatgc cttgaccgc ttctctgtga cccacatcat ctacagcttt gccaatataa 180  
gcaacgatca catcgacacc tgggagtggg atgatgtgac gctctacggc atgctcaaca 240  
cactcaagaa caggaacccc aacctgaaga ctctctgtc tgtcggagga tggaactttg 300

gggtctcaaag attttccaag atagcctcca acaccagag tcgccggact tt 352

<210> 39022  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-D2

<400> 39022

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gccttctcat cgccaccaat ggccactgcc gaggtccaga ccccgaccgt cgtggcggcc 180  
gaggaagcgc ccgtggtgga gaccccgccg ccggccgctc tgcccagga gtctgcccc 240  
gccgaggccg aggcgagggc cgaggctgct gctcctgctg atcccagga gcttcccgcg 300  
gccgagcagc atgcagccgc cgaggcggag gccgcggctc ctgctggtgc cgaggagccc 360  
gtcgcggccg aaccggccgc cgaggcggag gctgctgctc ctgctggtcc cgaggagact 420  
cctgcggtcg 430

<210> 39023  
<211> 201  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-D3

<400> 39023

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gcggcgactg acctcccggg tgcctcctac gaggagaccg actatggttc gggctcctac 120  
gaggaggagg aggacgatga ggacgacgat gatttgtaga ccgatctctc accgtctacc 180  
gaagatatcg agagcgatgc t 201

<210> 39024  
<211> 432  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-D4

<400> 39024

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cagctgaacc tgcccccaat attcgcaaga gctttttcca aaacaatatg ttccagtaaa 180  
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cctgattgcc ggagccaaac cgtcaaactg ccaaatatat ggcgacccaa acaatctgga 360  
ggccagcctg catgatctcc atccagcgtc ttggtattgc gttgcatggt atcccatata 420  
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<210> 39025

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-D5

<400> 39025

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taaaggagaa ggtgaacaac gcggtgctgt tcgaccaggc tacctacgac aagctgctct 180  
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atggctccct ggctcggagg gctatcaagg acctgatggc gcgtggcctc atccggttgg 300  
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<210> 39026

<211> 461

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-015-Q1-K1-D6

<400> 39026

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 gcgaccgagg aagcgccggg ggtggagacc cgggctccgc ccgcccgtcg gcccaggagg 240  
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 gctgccgncg ctgagcccga ggcgcccccc gtggcgggcg aagaagagac gccaaaggag 360  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
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 cttcgccttc ggccacgacg tgatgaggag cangtggctc aagctgagcg cccgcgtgtc 360  
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 <211> 456  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-015-Q1-K1-D8  
  
 <400> 39028

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 gaccggtgta cgccattggc cactcatgt cgcagcaaca ctgagttgac gaaggtggga 120  
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tgtacgtcgc gttcggcaac cgctgcgccg tgagccatga ccagatcagg gagatcgccg 240  
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 gggacgacag cgccgtgctg acggaattgc tggcgagggg gttcctggag cgagtgcagg 360  
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<210> 39029

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-D9

<400> 39029

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 gttggagagg ctgaagataa agaaaatcag caagccacca gtggtccaaa ccagccgtct 180  
 gttcgccgtg gataccggcg tccctacaat taccggcgtc gcccggtcc tctaacgct 240  
 ccttcacaag atggcaaaga ggccaaggca ggtgaagcac caactgagaa coctgctcca 300  
 cccaccagc agagcagtgc tgagtaacac caggctctc aggcacctc accatcggca 360  
 ggtgacctaa agaattaatg accattcaga aataaagcaa aaagcaggcc acaaccttaa 420  
 ccaacaccaa agaaaca 437

<210> 39030

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-E1

<400> 39030

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 gatgatcttg accagcgatg gcaggaagcc actggagagt ctgtttctga ggtcatattc 120  
 ctgagcaaac aactgcagt ctccaaacgt ccagcactca cagtgcattc aattgggtgtg 180  
 ccacatctga aggaggatga aacccccccc caaggaggaa ctctggatg ggcagcaatt 240

ccaagtcctc gaattggacc ttggctccgg ttgatgcaaa agatagctgt agaacaaggc 300  
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<210> 39031  
 <211> 435  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 39031

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 cagtcaacc agcctgtgtc tgagcagaca gggcgaacaa gcaggccaca ccgtctcgag 240  
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 cgttttaaca aatgtttaga caggctgtgg ggactcccct gaggttgagcc ctggccagn 360  
 gtccgggtgt gtgcgggaa acctncagcc tttttcttca aaccactcag ctcatgtgtt 420  
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 <211> 441  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 gcatctcttg gtcccaataa ctgcctctag atacatagcc atactgctag ttaaccagc 180  
 gtccctcaga cttggatgga gtttctggga gggtagaccc aatgatgca gatacttgta 240  
 tactttgagc cccttagcga cctaaccaaa ttgtaaaaat actatttacc aaaggtgcta 300  
 ttactctgta aaacactttt ttttggcaag ctgactntat tcttcaatta ttatcattat 360



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cagtagtccc accacttcat a 441

<210> 39033  
<211> 280  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-C8

<400> 39033

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atcatctaca ccaaagacca ctttcatagt ccagacatca accttcacga cgaccgctta 180  
atcaccatt gtgcagacat caacgactgg cgcattgccc gagcagtcta ctcccaccaa 240  
cgcccaagcc cataccaacg ctgctactac tgctcatccc 280

<210> 39034  
<211> 336  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-B2

<400> 39034

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cgcccggatc ggaggatgat aagtttgccg ggaggcgctc ccgccgtgtg agcttcgcgg 180  
acaccaccgc ggtgcacgtg ttcgaccgcg acgaggactt cgagacgcct tccgaggagc 240  
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ttgaggacga cactgaggag gatttcaacc gcccc 336

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<211> 353  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-B3

<400> 39035

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tccaattagt ttcttgcattg tttgttgagg attcttcaaa agggttccac aacgccagtg 180

atgaacataa gtatgtagac aaccagagtt ctgttactgc cttttctgga aaagctctag 240

tgagggcact agaaggcgaa agggaacttc taaaagtaac aacagcagtc cacaggcaaa 300

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<210> 39036

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-B4

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aggacgacca ccacagggcg tcccttccgc accatactga ggcgcaagta caggccgcag 120

ctggtcatag ctctcctcgt acccttcttc aaccagggtca ccggcatcaa cgtcatcaac 180

ttctacgcgc cggtcatggt ccggaccatc gggctcaagg agagcgcgtc cctcatgtcg 240

gccgtgggtca cgcgcgtctg cgccacggcc gccaacgtgg tggccatggt ggtcgtggac 300

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<210> 39037

<211> 284

<212> DNA

<213> Zea mays

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<223> Clone ID: LIB3069-015-Q1-K1-B5

<400> 39037

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aaaatcaaaa aaaaattgtc gggcggataa tacaaggcct acaacagaag gaataccctt 180

tgtgcgacag gcgaacagct gtctctatct ctctctgcag tggtatttgg tttattatat 240  
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<211> 427  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 39038

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catgaccctt agcaattccg tatcatcctt ggacattgca gcttcccga actgttttgc 360  
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aatttca 427

<210> 39039  
<211> 371  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-B7

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ccagatttat gcactttcac aactttgatt catgggtact gtaggcaagg taacttcgag 300  
aatgcattgc aattgtttga cacacttgtg cgccagcgtt tgaggccaga tgctcgtgaca 360  
tacaataggt t 371

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 <212> DNA  
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<223> Clone ID: LIB3069-015-Q1-K1-B8

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<223> unsure at all n locations

<223> Clone ID: LIB3069-015-Q1-K1-C1

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<210> 39042

<211> 405  
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<223> Clone ID: LIB3069-015-Q1-K1-C10

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gaagtacttc accaactgca agcagcggta ccaaaggaaa atctgtggca aatcaacagt 300  
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<211> 399  
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<223> Clone ID: LIB3069-015-Q1-K1-C12

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<210> 39044  
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<223> Clone ID: LIB3069-015-Q1-K1-C2

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<210> 39045

<211> 334

<212> DNA

<213> Zea mays

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gcacaagctt ctacggagca tcaatacact ccccctaagg caagacaaag tcaatgggat 240

cgagggtggac caaatgtgcc aagccagggt ccatcatatg tatatataac gaaggttatg 300

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<211> 371

<212> DNA

<213> Zea mays

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 gtttgctggc aacctggcct ctgggtggtg tgctggtgct tcctctttgt tttttgtgta 300  
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<210> 39048  
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 <223> Clone ID: LIB3069-015-Q1-K1-C6  
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acgtcttttg ctgttgacga tgatgccctt gagctggtgc tgtcagcgtc catcgatggc 360  
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<212> DNA  
<213> Zea mays  
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<211> 343  
<212> DNA  
<213> Zea mays  
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 <211> 437  
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<223> Clone ID: LIB3069-014-Q1-K1-G11

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<210> 39052  
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<223> Clone ID: LIB3069-014-Q1-K1-G12

<400> 39052

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ctaagggcac tacgggccac gcggaagagg actcggccct cattgatccc tccggcgata 180
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<210> 39053  
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<223> unsure at all n locations

<223> Clone ID: LIB3069-014-Q1-K1-H10

<400> 39053

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atcatatgcg taacgggcac gaacttaagc cgcgagagtg caagaggcga atacagtaat 180

tagcacgaaa tcatccaagc cgacggaaga gtagcctttc cgtcacgacgac gacacccccac 240

tgaaacgtac agtaaaagtc acgcgatcag aaaaaaatgg aaataactcca cagccccgaa 300

cggagatcca atacccccgc ggtcaggata ccgggtcaca ctccgtcatt cntctatccg 360

gtataaaciaa tcctaccgc cctttagaga tcgccaccaa cgtcccgtag gaacatatac 420

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<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-H12

<400> 39054

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ctcagacacc ataataccta cttagtacga aatcgccgcg tcgaccctcc gaatcacaca 180

ctacgccaca agtaacaaaa aaactcctct catccgaacg cgtcagaccg attacattca 240

ggttccccgc cttcctaaaa tcaaaccgat tcacaacgcg cgataaaggg agcatcgtct 300

aattgaccca cggcgccccg agtcaaacac acgcgtttcg ccagcatcg acctaagcac 360

aagccattcg accagcgaat tttagattaa ctttttagcag aacttcgcct accaggagta 420

cggaac 427

<210> 39055

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-H9

<400> 39055

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 ggagcgagta gttgctcgga gacggccatt cccgaatcac ttgactcgga ggacccgacc 180  
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 gagtagtaca cccgcccta ctttcgggcc aaacgacgtg ctcaaataac ctgctcggtt 360  
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 cataacctct agacgtggac gagtt 445

<210> 39056  
 <211> 415  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 39056

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 cgtagcacca aaaaagcag ccttggcgcc acaggcctct gctgcgccgn caactacagc 360  
 tgctcggcg cagctggctg ccacgttggc cccggtttcc tcaccgncac tagct 415

<210> 39057  
 <211> 341  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-015-Q1-K1-A10  
  
 <400> 39057

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ggactgatcc cgcgcgcggc gccaccatgc ggcagaaggc ggtatcgctt ttcttgtgct 120  
acctgctgct cttcacttgc agtgggggtgg aggcaggtaa gaaaaagtgc tcggagagct 180  
cggacagcgg ctccgggttc tggaaggccc tgaccttcat ggccgtcgga ggaggactcg 240  
cagtcgccgg gctgcccgcg ctgggcttca ccggcgccgg catcgccggc aactcgggtg 300  
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<210> 39058

<211> 348

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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ctcctcatcg tctcctgcgc cgcgcagtcg ccgtacgcgt cgaaggctcc tccgctcagc 180  
gcctcggcgc cgggggggctc tgtcgcgcca ccgacaacgg cgggtctcggc gccgcaggcg 240  
tctgcacagc cgccgacaac agtcgccgcy tctgggcctc aggcctcggc cgtagcacca 300  
acaaaagcag ccttggcgcc acaggcctct gctgcgccgn caactaca 348

<210> 39059

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-A3

<400> 39059

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aggatcacia gtaggaggag ctgcgacgat gctgtagcga gagacatggg tgccgaggtc 180  
gttgtgctgc ggtggtggca ggacaggaag gaaacgaaaa agcaggagcc agggttgttc 240  
aacaacgtga ccgagtcgct gaggcgagga agagtaaggt gaaggcactc gtcgacgcct 300  
ttgagactga cagagcgta tctcgctgca ggaaaccagc aagcctgctg ctgctccagc 360

tatgaaagta ggtgtcgtgc catgagtgtc tcttgacctg cagtgtgcat gatcaccttt 420  
cttggaattt ta 432

<210> 39060  
<211> 346  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-A4

<400> 39060

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accggagcca atgtctctga ggtggcttac gccgtgggca aggacacgag aattggcccc 180  
aagttcctga acgccagtgt tgggttcggt ggctcatgct tccagaagga catcctgaac 240  
ctgggtgtaca tctgcgagtg caacggcctg cccgaggtgg ccaactactg gaagcaggtg 300  
atcaagatca acgactacca caagagcctg ttcgtgaacc gcgtcg 346

<210> 39061  
<211> 381  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-A5

<400> 39061

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acagaatttc atgaaattcg aggaattgga aaatcctcca gccaaaacag gctctggacc 180  
ttcaaggaag acgatgctga actccaaaga tctgagcttt gtgggggtata cgtacaaaaa 240  
cttcgatgcg gtgaaagcaa taaaaatttc agatctgcaa aggaattcat ctctaacaag 300  
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gaggggcaca catatgcaca c 381

<210> 39062  
<211> 428

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-A6

<400> 39062

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 cgaacaatca gaaagaatac tgcaggatgc aaatggaaat ggccagccaa tccatcagtc 180  
 ccagtatctt ggtgagacca gtataggcaa tgccacgccc gctcaacaag agaccagtaa 240  
 tggcaaggcc tcacatgctg aacaatgttt tgaggggtca tctcaccaa aagagcatgc 300  
 aaactcttta agaaacaaac gccaaactga agaagataag tttcagaaaa tgcttgctaa 360  
 gtcagcttct tctgagcttc ggctgtctgt atggatggaa tgatgctata attttatgcg 420  
 ctcgcaaa 428

<210> 39063  
 <211> 388  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-A7

<400> 39063

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 ctggaggggc agtaacacgc agaatcaaaa ccatggcagt atttgttggg agttgtatatt 180  
 gcttttgctc catgtagcct ctactccaaa acactttctt gacttgatat gatgctgtat 240  
 aattctagtg tcctatcagt tttcagcttg cttatgggtgc aattaaaatt ctatgtgcct 300  
 gatgaaattg ttcttatgaa tgaagaatga taccaggact atgttcgttg gcaaaaaaaaa 360  
 aaaaaaaaa ataaaaatgg aagaaaaa 388

<210> 39064  
 <211> 391  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-A8

<400> 39064

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agcttttgga gtacgaagcc tgtttcgtca gtggtoctct ctgtgctggc tgatcccaga 180

gaggctggcg atggggatgg tgaggaagg atctcttcaa aatcattgtc ccgcatctta 240

gttgctgttc ttatagatag tgttaagtat gttacgtact cttgtgtcct gccgttcaaa 300

agccatagcc ctcaccttta ggtcttggtt ttggacgtga gttgataaaa gctgacctat 360

accatttata gcagaagagg tgtaaggaca a 391

<210> 39065

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-B1

<400> 39065

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cttgcttcgg ttccaaatcc actctttgac cttgctggta ttatgtgtgg gcaatttggt 120

gtgcctttct gggagttctt gtttgctact ttgattggga aagccatcat caagactcat 180

attcagacac tatttatcgt gtccctgtgc aacaatcagc tcttgtatct tattgaaaag 240

gagttaatct ggatatttgg tcacgttcct gggttttctg ccacccttcc gtctgtgatt 300

gccagactcc atgctgccaa ggacaagtat ctatcaccac cagccccagt ctcaccgtca 360

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<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-B10

<400> 39066

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aacactagtgt ctcaatatgt caactctgac atgggtcagtt gttatcactc tggaaagaca 180  
 cgttcctctt gccacagagg gcatgactct agtgcataac aattacactg ggtatgatta 240  
 tatcgtctct ttttgaggat aactgggacg atacaacaac gcggtgtaca ctc 293

<210> 39067  
 <211> 333  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-014-Q1-K1-G10  
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 ccgagccatt aagggaacccc ccgcgcgacg tcgacaaaag acgcaatcga acgccccacc 180  
 acagcccaca ttacccgaat tgcaccccca ccgtctgtta aaaaaaaaaa aaaaaaaaaa 240  
 aaaaaaaaaa aaaaaataaa aaataaaaaa aaaaacgaca aaaaaaagat aaacataaca 300  
 ctctataaaa caaggatagc cattaccgaa agc 333

<210> 39068  
 <211> 460  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-014-Q1-K1-C9  
 <400> 39068

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 taaaaattaa cgccggtggc aggtactccc tataaagtaa cggctgtgga ctatataagc 180  
 ttaataagtg cgaaaagtct gatcctaact actcaagatt gaagaaacga aaaacggcgc 240  
 ctgagccagt ctccgcatct cggccgcagt cgcatttaac cggttactcg tcgcgccccg 300  
 ctgaccacac tcagagagtc ggcaattacg cttacgcgat tacgcggtac gtacctccag 360  
 cgagaccacg cggcgccaac taccctctcc ctaccgacg cgcctcatct aatcatctcg 420  
 tcgcaagacg cgaggtctca tcgcatagta gcgacgaacg 460



<210> 39069  
 <211> 444  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-014-Q1-K1-D10  
  
 <400> 39069

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acgtatcccg ccgttcatag ttcgcaattc atcattatat taagtcaact cgggcgagggc    180
actttgcgtc tagtgatca ccgaagttgc ggagaagtcg ccgtcgtagg ggacgggcct    240
agccaccgaa cttaaggata ccaccggaac tcataggatc ttaccaccgg acgattatgg    300
ataagcttgc cattacacct attaaaagta agcataggcc attggacgct actgcggaaa    360
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gaacggcgcc cgtaagccga caag                                           444
  
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 <211> 435  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-014-Q1-K1-D11  
  
 <400> 39070

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gtcccacgag tcgaatctat aagacacggc ctacgacgac ctcgaggcca ctaactaccc    180
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ggagctagta ataatcctcg acgcgaaact cgcgtcggtta aagcctctat agactaaccc    360
gtcctataac gattcgagtt cgttcgacga cgacaagcta gtggcgatcc tcaccgtaaa    420
ccgactccct acact                                                         435
  
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<210> 39071  
<211> 413  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-D12

<400> 39071

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gccggattcg caagccgatt cgagaccctt acccatcctt tcccagcctc gctagcgatt 360  
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<210> 39072  
<211> 185  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-D6

<400> 39072

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cgcgcttcgg agccttacc cttccaatcc ctacccggtg ctaccctgtt agccccacgt 180  
cccaa 185

<210> 39073  
<211> 398  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-D7

<400> 39073

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 attgtcttgg tcctacggat ggggacgacg ggggttcgta aaacgtagca atatccgct 300  
 cgtaaaataa ggaggacccc gctgtcacct cctccacgt cctgcggcgt tttccctca 360  
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<210> 39074  
 <211> 475  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-D9

<400> 39074

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 agctcgacgt tccggaacc gttctagaag caggccattt cgccgcggt tgcttactac 240  
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 ctgtaattgt ggcgtaagca gacttagaaa ggttcgcccc agcgataaa cactcaaccg 360  
 acgtagccga aaccgacgcc gacgtaccgg tcgatatagt cggaacgcc gcgaccggcg 420  
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<210> 39075  
 <211> 264  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-E10

<400> 39075

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 cgccttacc cttccaatcc ctaccggta ctacctggt agccacacgt cccaaaacgc 180  
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264

<210> 39076

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-E11

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ctacagtccc ctacagggc tattcaaacc aaaccaatcg gttgctgccc cataatgctg 240  
ggatcgggaa aatttcggtg ccattttaatc caactgttcc gtagaaaact tttccctgt 300  
tagccggtgc aacagtaaaa aggtttgaat tgactgttcc ctttaatagc cgtttaattc 360  
gaacggtgaa cg 372

<210> 39077

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-E12

<400> 39077

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gttgctactt cgtagtaggt gcttattcgc tgagtggcgg atgttttaag gtcttggggc 300  
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<210> 39078

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-E9

<400> 39078

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gagtcgcatt gtcatactcg tgatattaag ggtgttcctg cgtagttcgt ccctcatgag 180  
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tagggtgata aggtgctggg ttcgtctgcg gatcctcctg ataagcgta ggtggatttg 360  
agttatcgga gtaagactct ttaggggtggg tcttagtgca ctgaggagaa gcatattcgg 420  
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<210> 39079

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-F10

<400> 39079

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gaggagtaag gttacttaag cagaggctcg caagtaagta tgattggaga agcccgagac 180  
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ctctaaggac agggggcgccg tccagtcgcg agtaattgac gataacgccc acccccgcat 360  
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<210> 39080

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-F11

<400> 39080

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cgactcctag acgaagacgc atcaccatga ggggacggag ttccggagtt tgaagaaaaa 180

gacgttcggt gacgcgttgg agggagttgc gtcgacttgg gaatatatag tgatgattaa 240

ttcgcctagt cgttctcggc ctaatgaggc gaattctcct attttatgtg attagactag 300

tcctgggcat gcgggtgtgta ggtctgggta tgtctctgag tctcctacgc cttttaatcg 360

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gcggggttaa atggctgatg agactgcgga g 451

<210> 39081

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-014-Q1-K1-F12

<400> 39081

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tcccgtgtta tctattctgt gcgggtctgta gtagcattgc gtctctatcg ctttcgagtc 240

aatttagtag acgcgggacg ttaagaatac gacgcgcgtc gtcgatttgt gctacggttg 300

tcactctata gtactcgta cgccttgccg aaagacgagt attaaggagg cggatgagta 360

aacgactaac gcttagaata agaattctgc tcctcctgcg gagcggactt ttaataacgc 420

ga 422

<210> 39082

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-F9

<400> 39082

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tatggctggt caacacctta atcgccgctt cacggacttc ctttcaactt cacctcggaa 240

cgcttggtggc tctaattctg ttgtcagata ggacgcgcgc aggagcccgg ccgacctgtc 300

aagagcagac gccgctcgcc cgtaagaaat aaagccggct aaccgtgact gttgtatagc 360

cccgctaacg ccaggtgtcg acctcgataa caatcctacc cgctcgtttc tggccggggg 420

aagcggcggg gcgtcgaccc tccgg 445

<210> 39083

<211> 468

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-C12

<400> 39083

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atacttagtc cgtctctgcc gccgtcagga agtctaaaga gtctaagggg atcaggctcc 180

gcacagcgcc ctctgactaa ttcgaaaaat gcagggtact agagccgcct aagatagtca 240

cagatatgac cgagggcgca attactagtc tttcggacga cccatttatc gatttcgcta 300

atagtcctcc taaactaaca agaaatattt cggaccccgga tcctctagac gataacgaag 360

gcagacggaa actcgacgaa ttattactgc cacacactcc tactaatagt agtatgtgcg 420

attccgtcct cacagagaag cacgcggaaa aagccgttat actgcct 468

<210> 39084

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-H5

<400> 39084

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 gaaggcggcc gtacgaaggt cgataaaggt ttccggaagg attttgaaac tccgaagacg 360  
 gcctaaagcg gcgacgggag gcgcggacta tctggcatgg ttctccctga ggtcttggag 420  
 aaaacgaccc gcga 434

<210> 39085

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-H6

<400> 39085

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 caaattaatg ggttcgagac tctatcgca gatgtcgcaa acaaggaaat acggaagccg 180  
 ggagtcagct accgaggatg agccaggttt cgcctgccca tactggaccg tatttgaaac 240  
 caccttgggc aactaaagcc cacacaaacc acagaagtaa cttggtcttg aactgccttg 300  
 atttattaac ttgatataaa tgaataaggt tccagtggcg cgtacttagg ggggtccccgc 360  
 ggtctaacac gcgacgttcc cctgttttcg tcgacccctc gcaaacaaaa tgacgtcggg 420  
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<210> 39086

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-H7

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 cttgttctct tgtcattaac gtgtgtgtct tgtccatctt gtagatgtcc gtgtcttccg 240  
 attatagttc atgtcgctaa gtaggatatg gtttctcgga tttgcgtatt tgctcttggt 300  
 actagcgctg gtattgatga tggccaatgt cgttctactg ttgctgattc actcgatgtt 360  
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 gaggagtct 429

<210> 39087  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 agtctacatc cctcgcgac cgtagggacg gacgggatta aatcacctca cccttatagt 240  
 ccgcgtcatt agcaatcctc gcacttccaa cgtagtaaata taaactagaa gaggtgaagt 300  
 cgatgccacg tctcgtggcg gcctcgacgt attctccact ttaactggac cgggaggccc 360  
 cgcggttcgt agagtatccc tatagaggaa tagcgattta ataaaagtcc tctggttccg 420  
 ggatacggga tgcg 434

<210> 39088  
 <211> 272  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-H9

<400> 39088

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ccaagataac gtcgctcgcc cgggccagc acccgtccc gctgaaaatc agtatatcca 180  
 ccgcatcatc gactagtaca cccgccgcta ctttcggggc aaacgacgtg ctcaaataatc 240  
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<210> 39089

<211> 193

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-A10

<400> 39089

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 aataacaaag gttactatcg cagggactaa gtccatgcga attcgtacgt gaagaagctg 120  
 tcggcggacg agtttgttca tgccaagctg atcgtttggt agaacataat ggtggaatcg 180  
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<210> 39090

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-A11

<400> 39090

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 gtggttgtct cagaggactt aagtccatgc atgtgcgtac gtgatgctac agtctcctca 180  
 cagcgcattt caaacctaac ctatcgggtg ctgccccata atgctgcgat cgggaaaatt 240  
 tcggtgccat ttaatccaac tgttccgtag tatacttttt ccctgttagt cgggtgcaaca 300  
 gtgaagaggt ttgtattgac tgtttccttt aatagccgtg tagttogaac ggtgaacggg 360  
 atgtgtttcg cagtgggtga ccaagtgtgg tgggcgcggc ggccatgtgt agtgcgatt 419

<210> 39091

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-A12

<400> 39091

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tggcggagga ggagtttggtg gctgagaaga tgattgttgg gaagaagttt aaggtggaga 180  
agtgggcttt tgcggttaag cttgttggtg aggggggtgg tgagggttaag tgcggttaaga 240  
agaagggtta gaagagtgcg gagatgcata agactcatac tcctaaggcg tcgaagtagg 300  
cgtatttgga tactgggtact cttcttaaag ttacgcttac tacgaatctt cctactaatg 360  
atactcctga gaagtcggtt ggtgagggtt ttaagtctgt gtgtcataat aagaagt 417

<210> 39092

<211> 132

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-A2

<400> 39092

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<210> 39093

<211> 385

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-014-Q1-K1-A9

<400> 39093

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agtggctggt gcggcggttg tggcgctgct gtcggtagtg gtgggtgatga ttctggaggt 180  
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tatggggctt ggttttcttg tgcttcgtcg cagtgggtgct aggaattcta agagtgttgt 300  
tagtattgtt gttgataggt gtgttgntcg taatcgttct aagaatgttg ntaggggtgc 360  
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<210> 39094

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-B10

<400> 39094

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atggtagtcc tgaggagaag tcgtgttggc ctgaggcgcc taaggataat tcgtattata 360  
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<210> 39095

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-B11

<400> 39095

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catcgccttc taggctgcgg ttggccgtac ttccggaact tctacggtcg ctgccacgtc 360  
cccgtctctt gggagggtcc agctaagcgc cgcctatttc aactctgtc ggcgacgggtc 420

ataaagtaca aaaatacgac ctctttac

448

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<213> Zea mays  
  
<223> Clone ID: LIB3069-014-Q1-K1-B12  
  
<400> 39096

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cctcgcgagt tatccagtac cgatcacgac atatcgtaga tcaccacggt gtacgagccc 180  
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tagagactcc accagtaagt cgtaggactc atactcgaac ggaggcgtat gtccatcagg 300  
aatcacggcc acgctaccga ccggtcaagt cagtacgacg ttatccgact accatctgac 360  
gacac 365

<210> 39097  
<211> 430  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-014-Q1-K1-B9  
  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-014-Q1-K1-C10  
  
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 aatttggaac ttctttttat gcgtgcttct gttagttttc atgctagggt ctctcctatt 180  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-014-Q1-K1-C11  
  
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<210> 39100  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-013-Q1-K1-H4

<400> 39100

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ttaattatac agtctaccac acaggggtat ttaaaccgaa gttatcgggt gttccacta 180  
tatatccgaa atcgacaaaa ttttcgcggc cttattataa acggttcctt aggataccgt 240  
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<210> 39101

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-G10

<400> 39101

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gcctttctgt tcgtatcctc ccacggctgg tcccgtgtta tctattctgt gcggtctgta 180  
gtagcattgc gtctctatcg ctttcgagtc aatttagtag acgcgggacg ttaagaatac 240  
gacgcgcgtc gtcgatttgt gctacggttg tcaactctata gtactcgtta cgccttgccg 300  
aaagacgagt attaaggagg cggatgagta aacgactaac gcttagaata agaactctgct 360  
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<210> 39102

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-G11

<400> 39102

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attgctcgat tacggcaaaa tcggcagaag taataaagac gtgcgaggaa tagacgaagg 180  
ttgaagtcta tctagggaga agtagtgctg tagtagcagt ccgcaagcgg cgccaagacc 240

gcagtctccg tcactagcgc caactgccta ccgctaggcg gccgtccacc gctgggtcgta 300  
atcgacgttg cgcattctttt gacgtaatac gctggcactc gatcatcgaa cccgagatgg 360  
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<210> 39103  
<211> 132  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-013-Q1-K1-G12  
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<210> 39104  
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<212> DNA  
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<223> Clone ID: LIB3069-013-Q1-K1-G2  
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ttgatagttg taggtcctca gtccccgctt tagatggtag gttgttattt gttaggttgt 180  
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<210> 39105  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-013-Q1-K1-G3



<400> 39105

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atgcatgtgg gtccgtaatg caaaattcac ctaacggggt tattaact aaacctatgg 240

gttgctgccc aaaaatgcga gaatgggaaa aatttcggtg catttaaata aaactgttcc 300

gaaaaaaact tttccccctt taatcgggtca aaaattaaaa aggtttgaat taactgttcc 360

ctt 363

<210> 39106

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-G4

<400> 39106

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aattttctagt ggatcctagc gtcgaagacg ccagcagtag tctaggcttc cgttataata 180

tccgccccaa gttccgcccgt gactacggcc ggcgtccgcc ggaagacgaa cacgccgaag 240

tgcgaacact ccgcgggtaa gacgacccgg tggccgagga aaccggaact gtctccatag 300

aagcgatgat gactgcctcg ccggtggccg atgaaaggct aggctcgtac gaagacctcg 360

acgatgacca tactgacgac ttaacctccc tctcggaact cgacctaatc gacga 415

<210> 39107

<211> 460

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-013-Q1-K1-G5

<400> 39107

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 gtagtgtagc tagtaagtca cgacggtaaa taacgtgggt aacaatccat tcgattgaag 180  
 cgtaagggta ctcaactacg taagcagcaa tacgatcctc gataattagc tctactaagt 240  
 tctttaacta gccggcgctc taagcctcta cgacggcggc aacgcttaaa gataagactt 300  
 ggaatgactc attttcgaaa gcggtataaa cattagttac gactaaagct aatagagcct 360  
 cataggcgtc gnaggctctat aagccttgtc cagatgcaac agtggatacg ggcgggcaat 420  
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<210> 39108

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-G6

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 ctctgtaagg tcccaccagc gtaaatagtt ggtaataata gtagtttcac ctctccgta 180  
 cgttatccca tttaaatcgg ggacagtcct cggtctctacg gctgcgctag aggaaaatag 240  
 aactagtagg gcccggtacg cggtcgcaga ctctagatcg tagaccactc gcaatgacga 300  
 cgccgccgaa ggaggtcgcc caatagcgta agtaagacaa tccacatcca cgttccagga 360  
 taagcaacac cgtccttctt cgacgaaaa 389

<210> 39109

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-G7

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 ccccgactat tactgctatt tcggaagctt cgtctcggtat gaggcggaaa aatagtattg 120  
 gccttatggg ggtacaccag tcacccaatt gacccccaca ggcgcccgcg acggctagcg 180

aaggaggcct gcacctcccg cctgaacacc cctgtgcgca cgtagccgca acgcttgtac 240  
 ccgtcgtgcg acgcgcgtac gcgctccgga tccgttgccct tgacgttccc cgcgtcgtct 300  
 ggaacggaga cggaacgacg acccttggtg taccctttac gtcgtgaacg gcggcagact 360  
 cggcacacct cgccgcgaca tcgcgatcga tccacggcgc gcccgccca cggagctatc 420  
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<210> 39110

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-013-Q1-K1-G8

<400> 39110

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 cgccggatac acgcgctaca cgttccgagt aagagcataa cgtcgcccc gcgttgcaag 180  
 caccgcactc cccttagaat ccgaacgtct cccgccgaga acgaagtaat ccgacccctc 240  
 tcacccctc acccttcccc ctttacaacc ttaaacadat caggtaatac cacggccctc 300  
 acacccttcg cctatcagca gccctccgac cacctctcca acggtccgtt ctacaatcng 360  
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 cag 423

<210> 39111

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-G9

<400> 39111

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 ggacggagtt ccggagtttg aagaaaaaga cgttcggtga cgcgttgag ggagttgct 180  
 cgacttggga atatatagt atgattaatt cgcctagtcg ttctcggcct aatgaggcga 240

attctcctat tttatgtgat tagactagtc ctggtcatgc ggtgtgtagg tctggtgatg 300  
tctctgagtc tcctacgcct tttaatcgtg agcataatct gtcgcctgct tcgtataggt 360  
atatgagggga gtatctgct 379

<210> 39112

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-H1

<400> 39112

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cccgaggccg ccgaggacaa ggactccgtc gaagacctct ttccgttccg gcatccgttt 180  
ccggacttaa gttgacctct ttcgagcagt ccttgcccga ttctcgccgg atgtacgacc 240  
atttgataaa cggctaaggt ttccgagcat gccggctccg tcttgtaggg tagcgagagg 300  
gctctcaacc cttcgagaaa ggctcgtagaa gggctggcag aggggtggaaa gaaggagact 360  
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<210> 39113

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-H10

<400> 39113

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taagaaagtc accaaggctg tccttgaggg cttatctaag ggcaactacg gccacgcgga 180  
agaggactcg gccctcattg atccttcgg cgatagtagg ctgagtactc ctgatgttaa 240  
ggttgggact gtctcgaatg attatcctgc taagtctgct ctgcggcatg ataagagcg 300  
gggtcatagt aattgtgctg ctgattcgac ttgttatacg cctaagattt agcaggggcc 360  
cccttttttc gtcctctacg gacggccgtc gtccgcgcac gttgagaaca aacgcgga 418

<210> 39114  
 <211> 178  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-013-Q1-K1-H12  
  
 <400> 39114  
  
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 cagtaattag cacgaaatca tccaagccga cggaagagta acctttccgt cagcatcgac 120  
 tccctactga aacgtacagt acaagtcacg cgatcagaaa aaaatggaaa tactccac 178

<210> 39115  
 <211> 442  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-013-Q1-K1-H2  
  
 <400> 39115  
  
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 tcggtgggtt cggttatgtc ggattcgctt aatgctggtt ctgcgggtgt tacattgggg 180  
 cttacgggtg tttcgatggg gtcttggcct tcggtgtcgg attataattg ttcgatgggg 240  
 gttgcgttag ttgagctctgt ttggctgctt agtactggtg tgtcgcatc gaatggtaat 300  
 aattcgatgg ggatgtcgga gcctctggtt gggcctcatt agtgtacggg gtggtggcct 360  
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<210> 39116  
 <211> 371  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-013-Q1-K1-H3  
  
 <400> 39116  
  
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tcatatcaaa gttccgccta gcaacgceca accctacacg gaccgcggac cgaaaaaaaa 120  
 aaaagaaaaa aaaaaaaaaa aacaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagaaaat 180  
 gacgaaatgg acccaattca atccaagaag cataatgaca atacaaatta cttaaggggtg 240  
 ttcacatacc caccaaaggg agtgggaaga catcgtgaag actcccaacg aatacaccga 300  
 caagccaaat aaaagggcta gtatcaaatc taacgacgaa caataggata gtaaacaatca 360  
 aagctttaat a 371

<210> 39117  
 <211> 451  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-013-Q1-K1-G1  
 <400> 39117

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 cagacaaaag gtcgatgtgg gtctcgtttg ttgacttgac gacctacgac aatccgattg 180  
 actgtatggg tcttgcgttg gtgatgtact acctaaacc tcgtttcact aatccctgac 240  
 ggcaggacag gggttcatta cggcggcgat gggcgatgga gaaccagggc ctgaccttgg 300  
 agagggagtt cgaaaaatgg tcattatact taaggaaagt agtaggtgtg taaaccattt 360  
 aacttcgata tggggaggca gcgataacca acaataacat tgggtgtgcc agcgctcggc 420  
 aaccggaacg agcataactc aaactttcca a 451

<210> 39118  
 <211> 260  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-013-Q1-K1-E5  
 <400> 39118

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 ccccgtagga cctagttcct tcgcccacgt ctatttagaa atgtcgttga tagcaaaaga 120  
 cgtcgtcgac taaccgagcg tttgagcgtg tcatactgta tcggactcta atagtggcaa 180

gacttccgag agccactggt ttcaaaaatg ccacataacg acgagtatca ccgaagcctc 240  
gtcacgtggg atggatctac 260

<210> 39119

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-E6

<400> 39119

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gttaaccaac ggccttttat atttgatggg ccatacataa cgtagtattg ctaggggtcg 180  
cttagtaagg aagtatgctg agtgacgcgc agatgatttg gtgacgtcaa ctgcgataca 240  
tgaacgtgag tatagctata tttagtcgtt agtatagatc gtttagattc agaagactag 300  
caaactgctg tcttacctcg gaagtgtggg gagtacgttc ccgtattcag acggttacgc 360  
agaactctaa gttcctgacc cctgaccgta gtagtagtaa cgattac 407

<210> 39120

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-E7

<400> 39120

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gtcttcttct tctttagttg tagtcggctg tgggtgggtggg ggcttcggta gtggtgtcgt 180  
cgtcgtcggg ggtggggggt gggatggtgc tgggtgggtggc gagtcgtggg gaggcgatgc 240  
tgctggcggg gttgcgttct gggcatgtga cgggtagtgt ggtgctgttt cttgtggtgc 300  
gtcgtagtgg agcgtgtctg tctaatagtt gtgtgctgct ggtgggtggg tggtagggtta 360  
ttcgtaatcg ttctaagagt acgatggggt ggtctgggtg tgggtgctagt a 411

<210> 39121  
 <211> 483  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-013-Q1-K1-E8

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 acacgtccgt taagagttcg ttcggaagtg taatgcctcc ttctatgccc gccgtgtcga 180  
 agcctccggc cggtcacggg tccgagtctc tctgttcggc cttctctact accccttatt 240  
 cgaaaaggaa gcattcacgt aagatggagg aagaagcgag agtgggtacgg gtcttagcgg 300  
 actcgggaca caatattagg gcattaaacg atacgtctac tgtaatagcc gcctcgcgtc 360  
 atctagctac cgtgttcccg accaccttgc ctggcgctgt acatcccgtt tctggacggg 420  
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 <211> 275  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-013-Q1-K1-E9

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 tgggtcgatg gcggcccgag ttacgattcg tgggtcgttt atgcccgta tagttcatgg 180  
 tggcttggtt gagactactg cgtatggtgc gtcggtcat tatactgatt tccattaagg 240  
 tgataagggtg ctggtttcgt ctgcggatcc tcttg 275

<210> 39123  
 <211> 426  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3069-013-Q1-K1-F1

<400> 39123

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gtaggttcag tataagtagc gatactagtg atgagagcct acgtagcagt acgagtagta 180  
tgaagttcta taaggatgaat gacctgtggc gggaggtgac ttagatgggt agagtcagag 240  
atgggacttc cggattgagc taccctaggt cgtcgaagag atcaggtctt agtgacaccg 300  
gtagtgcgca ctctctggaa tcgagcggga ttgtgagtca ccctgtgacg aaggctacgg 360  
ataaggtact atccgtaggt tggaaaaagt cgtcctgggt ctaaataagag aaggagaccc 420  
cgtaac 426

<210> 39124

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-F11

<400> 39124

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aagaaaaaga cgttcgggtga cgcgttgagg ggagttgagt cgacttcgga atatactagg 120  
gatcattaat tcgcctagtc gttctcggcc taatgagggg aattctccta ttttatgtga 180  
ttagactagt ccacgtcatg cgggtgtgtag gtctagtgat gtctcagagt caccgacgcc 240  
tttt 244

<210> 39125

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-F12

<400> 39125

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gtaagtctgt agctaattcg accttgtctt tctgttcgta tcctcccacg gctgggtccc 180  
 tgttatctat tctgtgcggt ctgtagtagc attgcgtctc tatcgctttc gagtcaattt 240  
 agtagacgcg ggacgttaag aatacgacgc gcgctcgcga tttgtgctac ggttgtcact 300  
 ctatagtact cgttacgcct tgcggaaaga cgagtattaa ggaggcggat gagtaaacga 360  
 ctaacgctta gaatatgaat ctgcgtcatc ctgcggagcg gacttttaat aacgcgaaac 420  
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<210> 39126  
 <211> 417  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 cgctaagagg tcgggtcaca cgattaagtc gaggaaacgt ataaacgagc atgagttccc 180  
 gttacggtct ccgagataac aaatacgctt ccgctcgacg tagatcgctt tacgatatgg 240  
 agcacgccag atggtgagag ctacgtcgtc gtttcaatct acctctgtag cgaaacgccc 300  
 gagatagtca gagatctcct ccaagttagt acctaaagaga aggattcgag ccacgagtaa 360  
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<210> 39127  
 <211> 398  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-013-Q1-K1-F3  
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 ttatactgtt attgctctgt attgctgtgg ttatttacct ctctctgctt actgtactgt 180  
 cttggctttt agtgtaactg acttacttgc ttccaggegc gtccctagtca cgtagcctag 240

tagtgcgctcc ttttcagagg gaaaagtgcg cacgagttta gcgaggaaag gtagcggagg 300  
ccacgggagc gagaggacga ggactaatcg gcgtagtact aggtgtaata cggtatcaag 360  
gaggacgcgc cctagcgtaa ggggcgctcg gagtagta 398

<210> 39128  
<211> 347  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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atacgagtct cgtcagatgt cattcttcga gaggtcacgt tcctactgga gagggtagct 180  
tcgccgttat cggcgtatct cacgtcgtca agcattggta cgaggcgtct aaggagctcg 240  
gtttcgacgg gtcagacgct atacgggttc gtatcgatca aggcattcta aacaacgggt 300  
agggccccca gcgctctagt acgggtatact ccctgaagtc cgtcacc 347

<210> 39129  
<211> 289  
<212> DNA  
<213> Zea mays  
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<400> 39129

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ccttaagtcc cactatccta cgaacctaat ccaccacca cttccctcga gaatttccca 180  
cccaaccggt cgtttccccg cccacattg ctcccctcgc aaataacctt cccggccatt 240  
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<210> 39130  
<211> 333  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-F6

<400> 39130

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ttacgtatac gcctctcgtc ttttataatt cttcggaag tcccgttctt actggaaaag 180

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agctcggttt cgacgggtcc gacgctatac cggcgctcc cggtgacggc attcgcaaca 300

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<210> 39131

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-F7

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aaagagagga ctaactaact aacctgcttc aaaccaatt tcttcaaaaa ttatccacac 180

catcatcccc acccacacaa acttgctttt actttaatta cttgttagtt tatttgtttt 240

gttcgacttg ctttagtgac cgtcacgagc ccaggcgacc ccattataga ctccttctcc 300

cccccgagca cgcaaacaaa gcccgaggct taggtctgct acgcaaacct gggagtgagc 360

gaaactgggc atgcaggaac caggagtaga gggataagaa gggtcgggtcg tccggtaata 420

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<210> 39132

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<212> DNA

<213> Zea mays

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 tttttccctg ttagtcggtg caacagtga gaggtttgta ttgactgttt cttttaatag 360  
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<210> 39133  
 <211> 251  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-F9

<400> 39133

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<210> 39134  
 <211> 440  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-E4

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agttattgga gaagttccta gtcggattcg cgaaggatga gttcacgaaa ttactggaga 300  
 agttcctcgt cgaattcgcg aagaatgaat ttagcgagtt agtctcagtc ggagaaaata 360  
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 aaagtaacgg ctgtggacta tataagctta ataagtgcga aaagtctgat cctaactact 180  
 caagattgaa gaaacgaaaa acggcgcttg agccagtctc cgcatctcgc ccgcagtcgc 240  
 atttaaccgg ttactcgtcg tgcctcgtcg accacactca gagagtcggc aattacgctt 300  
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 cttgggaggg gtgtaccac cagacaaaag gtcgatgtgg gtctcgtttg ttgacttgac 180  
 gacctacgac aatccgatgg actgtatggt tcctgcgttg gtgatgtact acctaaacct 240  
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 <213> Zea mays  
  
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 actaccccggt tagccccacg tcccaaaaacg ccaactgacg gcccggcggt aatcgcccag 180  
 cgtaatacgt ggattagtct gagacattag cgtaggccac gccgtccggg gatattttat 240  
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 <213> Zea mays  
  
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gaccaagaga agacggcagc tccaccggcg ctccgagcat cgactagctc tcgatagata 180  
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 ctatacgga cgtcttacac gaacggctgg ataagatcga cctagaacgg gagcccaaga 300  
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 ccccgagatg accgatacta cacggacgta aaacaata 398

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 <211> 388  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-D3

<400> 39140

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 caatatccgt cgttactgac gaagaggtcg acacctcgac acactccaat cgtttcggcg 240  
 gaagctctca cctgactcca gtgaccacg accgtacgct tcggacaaag tttaaagccg 300  
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 aaggaacgtg tcacgtaacg ttaaactg 388

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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-D4

<400> 39141

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 aacaaaataa ggtcacgaaa cgacaggggt aacacggctt acccgtccgc gaggcgagaa 180  
 acaaaagaac gaaaaacaca gaccagcgtc gccctcga cctacccgac gaaatcggcg 240  
 ccgcctcccg aaccgccc aaatgagcgt cacccttcga atatcactct aaatcagcgc 300



cgccctacgg accttttttc cgctggagaa gaactcctac cccaactatc gactccatta 360  
cccagaactc aaaatccgac tacgcagcgc tctattcact agcctctacc acgtctcctc 420  
ccccacgtcc tagagcccac accgtcaaac acgagcaaag 460

<210> 39142  
<211> 327  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-D5

<400> 39142

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ttacttaaga gtccctacgta atcgccctaag cctcattatt ataagagagc cacatcctaa 180  
taccgaggaa taatgcatgt ctatgcgtcc ggggcgtcgg gaccggccgc agtccttgta 240  
cagaatgtcg togtacagcc aagaaaggcg gcggtattac cgactccgaa ttatgttcca 300  
gctatatact agtcgcggag ttcatat 327

<210> 39143  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-D6

<400> 39143

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gcactaggga ccccatactt gccgaaggcg ccctccgaag gggattgcac atgtcactca 180  
ctagaagacg actaaatcaa gccgcgctgc gggctcatag acaagaccat cgtaacccat 240  
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tcctgcgtga caggaacaga tgtgagagag accgaccttc a 461

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 <213> Zea mays  
  
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 cgatgccgac taggataacg acggctggac tgatcataat gagcccgcaa taacgacgta 360  
 gaagggaaac aatttatcag ggaaaaaggg gtatcgttag acgagtcccg gctccataga 420  
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 aaacgtactg tgagagtgtt gagcgatggc tcgtctcgtc tgatgctcgc agtcgcgtct 240  
 tctgcgacca ggagtgggtg gccgtgaaag cgcggctgaa cctcggattt ccaggaacgc 300  
 gactacggag cgtcgagtcg cgtgacgcgt cgcactgaaa ccagctgac tacgcgcctc 360  
 tcatatgccc gtaaccctg cccctaactt ggcaccga 398

<210> 39146  
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 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-D9

<400> 39146

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ttcgaactac ctccggatat ctcgaaagga gagtctcatc gggacaacta aacgagcctt 120

ccgtacataa agccgtccgc gtctcgctct agggatcaaa ggctactgta cgcgcctccg 180

atatttccga cgaaagtgag gtctacgcta attatagacg gcgtcgtcgt atagataaaa 240

gttaccgtcg agtagactaa agatcggagt aatgtaccct ccgttcacga attaaatcgg 300

gtcaccg 307

<210> 39147

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-E1

<400> 39147

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ttagagactc gggaggacct aaaggggaag gcggacacat ctaccggcgg aaccggaata 120

ggtgggataa cactcggcgt cggttgccct tctaaggaga aaaacctcgg aaccaaggcc 180

accggcaccg agttcctcga aagcaatata tctcttggcg gaaaattcgg cttatacaag 240

acctagggaa ccggcgtagg acccgcctta aggaatccgg acagtgcacac ctccgacgaa 300

gcaaccgaga cactaagcga cgaagtcgcc gagatagtaa aataaccggt cgcctaggaa 360

agaccatcgg ccggaa 376

<210> 39148

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-E10

<400> 39148

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agggtaaggg tcatagatac ttagggcgcgt cgcgtcctcc cgcgcgtcgg cgccttacct 120  
 cttccaatcc ctacccggta ctaccccggt agccccacgt cccaaaacgc caactgatcg 180  
 cccggcggtta gtcgcccgcc gtaatacgtg gtttattctg agacattagc gtatgccacg 240  
 ccgtccgggg atatcttata tccgccggat tcgcaagacg attcgagacc cttacccatc 300  
 acttcccagc ctogctagcg attaccgtcc actcagtccc tagatcgaca tcacgtatta 360  
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<210> 39149

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-E11

<400> 39149

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 caaaggactt aaatccatcc atgtccgtcc gtcattgtac aatccccctca caaggctatt 180  
 aaaaccaaac caatcgtttg cttacaaata atactccgat cggaaaaatt tcgaatccat 240  
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<210> 39150

<211> 189

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-E2

<400> 39150

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 attcgggtcg ttctgtcttg tccatgtgtc tgtggatgtg ttgagctgtt gggtgaatta 180  
 gctggttgc 189

<210> 39151

<211> 296  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-E3

<400> 39151

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tgccgctaag aggtcgggtc tcacgataaa gtcgcggaaa cctataaacg agcaggagtt 180  
cccgttacgg tctcctagat aacaaataag cgtccgctcg acgtaactcg cgttacggta 240  
tggtacacgt cagacgggtga gagctgcgtc gtcgattcaa cctacctcgg taacga 296

<210> 39152  
<211> 310  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-C8

<400> 39152

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accaacagtg tacggacggg tacgtactcg tatgcgtgta cgctttatga tgagatggga 120  
ggacattatt ggcgagcata agcacaccaa caacgaacga cagcacgcat attcagggat 180  
gacatcagta acggtcacag acgagggtaa atcaaaaaga gcgtagggct aatatacaag 240  
aactcagac tcatctccat ccgtctgact acgtcacgat cccgggcggg cacattgcgc 300  
tccaaacgta 310

<210> 39153  
<211> 168  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-B12

<400> 39153

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gatacacgtt attattactc aacggaaagc gtagtagatc catcagaccc attgaaacta 120

cacaagtaat tcgtaggact cataactcgaa cggagtcgta tgtccatc

168

<210> 39154

<211> 407

<212> DNA

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<223> unsure at all n locations

<223> Clone ID: LIB3069-013-Q1-K1-B3

<400> 39154

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gggggtgta gtgctctgtt ctgttgctag tagtagtagt agtcgtattc ttaccttatg 120

gtccttgctg cgtgtcctgc tcgtatttat aaaggatggt gtgatggtag ggggaggaga 180

cgaagtcgaa gtagtcggag ggttctccgg gcggttcgat ttagcctctt gattttaagg 240

catcgtcgat cgtgttattg nntattgttt tattctccgg gcggttcctt cctccttcc 300

ctctgcattt cgtctgacct tgttctgttt aattttgata aaagggaagg ggaaaagtgg 360

aagagcactc gatccccgtt attaacggtg cgcccccca taatgag 407

<210> 39155

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-B4

<400> 39155

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ccttcttaga aacgtcctag aagccgatac actcggtcac tagatattac ttctagacca 120

agtgcgccga tattgcctga gtacatattc ccggggcgct ccatcccgcc gaggccgata 180

ccgagtcctt agaggatccg ttatccaagg aggtatatgt taccggagaa ctctcttaaa 240

ctaagaccga ggagtcattc gaagccgagt gaggacctgc ctattcagac cctgaacgcg 300

attacaagtt ggagtaccta acct 324

<210> 39156

<211> 462

<212> DNA

<213> Zea mays

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cctgttcagc gcccgggacg gtttaacggc ctaaacttgg tctagcggtc ggtcattaaa 180  
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ctctcggagc ccgagtcgcg gccacccac tgcgccggcc gactgcgccc gaaacgtcca 300  
acctaggatc gcgatactct gagccgcccc aaaaaaaaaa aaaaagggtg gttgtctcag 360  
aggacttaag tccatgcatg tgcgtacgtg atgctacagt ctcttcacag cgctattcaa 420  
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<210> 39157

<211> 461

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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gccacggaga aggaagtaac ttgatgcgac gtggcctgcc taatgtgcgt gtcgccggga 180  
gcataggtag tagttgggta ctgcttggtc tataaggttt atttgttttg ataaggtttg 240  
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cggtaggaag aggttcgcgt tgaagggcac cgctcacggt aagtttaagt attagggcac 360  
tatttagtct aagccttaga ggaataagag actcgccgtc gaggaatggg tcggatgaaa 420  
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<210> 39158

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-B7

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tgtgtaacat tccggttaaa aagtccgggt cactaccaa gtgacattgg atgacgcgta 120  
gcacttaata ccgatctaag ttcacgatac atcacaatac taacacaact ctagccaggc 180  
gcatcgatc tagtgtatca ccgtaatttc gagaacgtca aaatcttatg ataggttaat 240  
acatactgta cgtaagataa ataccggcac tcagacgata ctacaaccgc 290

<210> 39159

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-B8

<400> 39159

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gacgccgatt ttacgggctt ccccggcgga acaacgacag agcgtggaat taactaattc 180  
accgagaaaag cgtccgtagt cgaagacgta gagcgccgca cccgttcact ggtccacgac 240  
gatagcgtag agccgtgtga atcttttcgc ggggtattacc cttatcgat tcgcactgac 300  
aagcggtcct atactaacgt aatacgtttt tcgcgtaagc ataatacctg gaaaagtagt 360  
agcagtagcg gaagcgaaga agcacgaacg tagctcgctc gataacgtaa actcggccta 420  
atcctcgctt ttgcgtcaac gcaat 445

<210> 39160

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-B9

<400> 39160

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tgtgcgtagc tgatgtacat cacctcacag cgcattcaaa cgcacctacg gttgctgccc 180  
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 tccctgttat cggtgcaaca gtgaataggt ttgtattgac tgtttccggt aatagccgtc 300  
 tagttcgaac ggtgaacggg atgtgtttcg cagtggagta ccaagtgtgg tcggcgcggc 360  
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<210> 39161

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-013-Q1-K1-C1

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 tcagcgaaga agtcggtaaa gaagcattac gtcccttccg tactcgaggt cactaccaag 180  
 taaaccttct gctoctccgg ctccggctcc aataaggtag gaaaaccttt cattccggcg 240  
 atatattagg aactttccga gcttaaggcc aatgagataa aggtcatagc caagccttag 300  
 tcgaagaagg cgtcccgtac gggcgccgtc gccggtaatc gtggtacgga cgagaagtag 360  
 actccttaga acgcgtaaac gagcgctaata ccntctgcgc tgtctccgaa aaagaaacgg 420  
 tagaacgcg 429

<210> 39162

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-C11

<400> 39162

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 atcggcgaaa ccagcgtcga aacgtctgct aattccggtg cctttcgggc tacctccgga 180  
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cccgtctcgc tctagggatc aaaggctacc gtacgcgccg gcgagatttc cgaggagagg 300  
gaggtcggcc taattacgga cgccgccgtc gtataaataa aagtaaccgt cgagaagact 360  
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gctg 424

<210> 39163

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-C12

<400> 39163

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cagcgccctt cgactaattc gaaaaatgca gggtagtaga gccgcctaag atagtcacag 180  
atatgaccga gggcgcaatt actagtcttt cggacgaccc atttatcgat ttcgctaata 240  
gtcctcctaa actaacaaga aatatttcgg acctcgatcc tctagacgat aacgaaggca 300  
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<210> 39164

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-C2

<400> 39164

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tgaggattct tgggtgggtt ttgcgctgga ggtgaatcgg ggttcgcctc atgggaatgg 180  
tattttggcg cattcttcgt atgcgcttgg cgtggatggg ccttcgggga atgatatgat 240  
ggattggatt cctcgtgcgg ttgttgatga tgtggattag aagggtggcg aggtggttac 300  
ggatcgggtg cgtgggtttg ggtgtgttga tcgtatggtg acatagtttg ggtaggtgcg 360  
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<210> 39165  
 <211> 258  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-013-Q1-K1-C3  
  
 <400> 39165  
  
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 aaaaacacat aagacataag gagaatgcct taacggggcgt gttcccacag gccttacgcc 120  
 cctgcatttc cgtcacgtca tgacacaatc tcgtcccagg gctcttcaaa cgtaaaaatt 180  
 cggttgcagc ctaatactgc tgcgatcggg aaaacttcgg ccccgttaaa ccagctgct 240  
 ccgtagaata ctttatcc 258

<210> 39166  
 <211> 436  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 taagaatcct tgttatggtc cgtatgggaa ggggtgtgctg gcgaagactc tgggaggttg 180  
 cgggtggtagc gggagtgtcc acctgatgtt gaagaaggta tcgtcgacgt gtggtgagat 240  
 caatacgtca tcgacgagtt taggagaggt ctcgtacctt aacggcgcct attacgccga 300  
 tgccgagatc gggaaggccg ctgtagaacg gtggcccgag aaggacggag tcgacactat 360  
 aacgtgagat accgttaacg atagtaaggg agtgtagccg gaatttcntg ggctgatacc 420  
 tccgggttcg gacgat 436

<210> 39167  
 <211> 474  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-013-Q1-K1-C6

<400> 39167

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aaagcacgag aggggggagag atatagaggt tctatcgat atacgctcc gctctctagc 120  
tttagagtcc ctccggactg tgaggaactt atcggaacc ccgtaaccgc agcagagaat 180  
cgactgctt gatgaaggcg tacggcgccg gttacgggct atggtaggga atagagatga 240  
gtaggctggt gtctcttttt tagtctaccg acttcgcttc tgtcacaagg cagcttcgtg 300  
gcggttcttg aacctatct gactgaatat gatacgaagt ggttatgtgg tgttagcttt 360  
ttctcggtcg tgacgattaa cttgaatgac gacggccatg gtgcggctgg gacggaggtg 420  
gatgtagatg tggatgtgga tgangagacg acggtgcgtg gtggtggtng ggag 474

<210> 39168  
<211> 399  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-C7

<400> 39168

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taacacacaa tgaacggacg ggtacgcaca ctgctacgtg tacgctttat gatgagatgg 120  
gagcacatta tggcgagca gcaccacacc aacaaccaac acagcacgct tattccccgc 180  
cgacatcatc aagggtcacg caccgaggta aaaaaaaaaa aaaaaaaaaa aaagggtggt 240  
tgtctcagag gacttaagtc catgcatgtg cgtacgtgat gctacagtct cctcacagcg 300  
ctattcaaac ctaacctatc ggttgctgcc ccataatgct gcgatcgga aaatttcggt 360  
gccatttaat ccaactgttc cgtagtatac tttttccct 399

<210> 39169  
<211> 423  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-013-Q1-K1-B11

<400> 39169

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catggggaga gtatccctag cggtcgcggg gacttaagaa ggtccctgca gcgtaatacc 120

cgtaatcgta tcagctcccc tacgcgcggc cacgtacgac gtccccggag cctggccata 180

cgttggaaag taggttagagg cgtcgaacta aaccgctcac gagtcgtag aggaatattt 240

accactagag ataaagttat cgtgcgaaac ttccggatac atcgcttctt aagctgcggt 300

tggacgtact tccggaactt ctacggtcgc tgccacgtcc ccgctctctg ggaggctcca 360

gctaagcgcc gcctatttca cactctgtcg gcgacgggtca taaagtacaa aaatacgact 420

cct 423

<210> 39170

<211> 183

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-012-Q1-K1-H4

<400> 39170

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tctgagtgtt gtataactta nnaatggann gcagtagtat tctatcagtg agttgggtacc 120

cctgggttac tgagtattta attttgtttt cataatctta tcctnntaca gacgattgca 180

ctt 183

<210> 39171

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-H6

<400> 39171

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ggaggggtttc ctcaaagaga acctgaaccc aaacccaagc agagaacact agcgttcctt 120

caccaaggcg ggcgtccatc ccagcagcca tggcgatggc gtacaagatg gtaaaacctt 180

ccccgcgctc cgcccatgcg cc 202

<210> 39172  
 <211> 409  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-012-Q1-K1-H7

<400> 39172

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 ggccacaaaa gccgccacct acacttcgac gccgccggtg tttnacaccc ccagcccgcc 180  
 gncaccatac tactagaaag cgatgcctac cataccacac tgctgtcagt ctctggagca 240  
 tttaggtggt ctggatcaat ggaagggttg tgtcctagcc agccggcaaa gatgagctgc 300  
 tgatggtaat gatgatgata agaggccact gctaccctac tacgtaccct cctctttgtg 360  
 tgctgccatc cgtccccgtt agacgatcga ggagagaata acgcagagc 409

<210> 39173  
 <211> 384  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-012-Q1-K1-H8

<400> 39173

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 ctcccttgac attgagcgcc caacctacac caacctcaac aggcttgtgt ccaggtcat 120  
 ctcatccctg actgcttccc tgaggttcga tgggtgctctg aacgttgatg tgaacgagtt 180  
 ccagaccaac ctggtgccct accctaggat ccacttcatg ctttcgtcct acgtccagt 240  
 cattttctgct gagaaggcct accacgagca gctgtccgtg gccgaaatca ccaacagcgc 300  
 cttcgagcca tcttccatga tggccaagtg cgacccccgc catggcaagt acatggcatg 360  
 ctgectcatg tnaccgggtg atgt 384

<210> 39174  
 <211> 340

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-012-Q1-K1-H9  
  
 <400> 39174  
  
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 ggcgaggact ctgtagttcc tgctgaagca ggtgtagagc ctgaaacatc agagcaaggt 180  
 cggcgccagc aaaaccagag aggcagaaga aaagggtggtg tgaaaagaac acggtctgtt 240  
 agtgctgtag ttgaagatgc taagatgata cttggcgagg tttttgagga gaagactgat 300  
 gatcagggag atacagtcaa ggtgggcgct acacgaaagc 340

<210> 39175  
 <211> 403  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-013-Q1-K1-A1  
  
 <400> 39175  
  
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 cacttattat acgactcact tcacaatggc ggtagcctca tactaagcac ctatagtcca 120  
 cggacccgcg gagaagaccg ctatacccta aaagctagtc ggcccctaag tctccaccta 180  
 gccctatctg tgtaagaag tcgcggaagt acccggcctc ccgtacggaa cgaatacaca 240  
 cgacggccgt cgtagtcag acacctaaca cctaaactct agcgaatcgt aagcttacca 300  
 taataatgat tgactcagag accctataaa cttactacca ttcatagaat aatgtttcag 360  
 ggttctctag taagtccact tcgacttagt caactctcac gtt 403

<210> 39176  
 <211> 269  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-013-Q1-K1-A11  
  
 <400> 39176  
  
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actccacagg gcgattcaaa ccgaacctat cggatgctgc cccataatgc tccgatcggg 120  
 caaatttcgg tgccattgaa tccaactctt ccgtagcata ccttttcct gatagacggg 180  
 gcaactgtta ataggattgt attgactgtg tccgttaata gtcgtctagc tcgaactgtt 240  
 aacgggattt ctatcgagc ggagtacca 269

<210> 39177

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-A12

<400> 39177

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 agaagaagtt tgtggtgaac aagttggcgg aggaggagtt tgtggttgag aagatgattg 120  
 ttggaagaa gtttaagggtg gagaagtggg cttttgtcgg taagcttggt ggtaaggagg 180  
 gtggtgaggg taagtgcggt aagaagaagg gtaagaagag tgcggagatg cataagactc 240  
 atactcctaa ggcgtcgaag taggcgtatt tggatactgg tactcttctt aaggttacgc 300  
 ttactacgaa tcttcctact aatgatactc ctgag 335

<210> 39178

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-A2

<400> 39178

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 gacgaccggg aggtcgccgc ctacgctcgc gagtctgttg tagaacgggtg ctagataccc 120  
 tacctagacg cagcggcgga taccgcacgt cattggtgac ccggttacia cgaaaccgac 180  
 gagttgcttc ctatttaatt caagacgcat aaggcgacca ggaattacgt aagcgtgtca 240  
 gagaccact aaaggaagcc gccagagctc gggaagactc taaaggaaga caccgacagg 300  
 ccaaataaa aggctagtat cacatccaac gaggaaccct agaatagtaa agatcacgcc 360  
 tt 362



<210> 39179  
<211> 402  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-A3

<400> 39179

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gtcgttgaag ctggtgagtc tcttgaaagt ggtggtcacg ggccttagtt aggtagacaa 120  
gttatcgtga tgcactgtgg tgctgcctga ggagtctgtt gttgctgtta agtagtactt 180  
tgtggcggtt acggatgtcg gggttcctct gtgtgttcgt cttaatgctc ttgcttctcc 240  
tggtcgctct ggtactgtcc ctaagcctgt ggagacggat catgctgtga aggccgacga 300  
cccggcggag gtgcttaagc taaccctaata accgttcctc acggccgagt gagataccta 360  
gattgatatc gctaggaaat tagggagtta cataaggaac tc 402

<210> 39180  
<211> 193  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-A4

<400> 39180

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tccgttggtt ttaattaagg aaaaggggga aggttttgaa ggaaatccta aggttgcttg 180  
gttgcttttg gaa 193

<210> 39181  
<211> 369  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-A5

<400> 39181

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cctaataaga aggataggac tcctaattct agaggtgctg tttcgggtaa tttggcgctcg 120  
gagcctgtga tggatcctaa tgtttgagtt gagcatcctc ggctgtatgg ttctactctt 180  
gatgttattc attgtgcgcc tattcttggt cgtaatcatc tttggcatgc tattgagcat 240  
catgggtggtc tgtcgctggt gtcgctggt tgggcgacga attaggcgat gtgtgagatt 300  
agttgtcctg ctgataagca tgatgctatg tctgatgctc gttctctgct ggcgtctctc 360  
tagcttaag 369

<210> 39182

<211> 476

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-A6

<400> 39182

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acatttcact tccgatcagt cttgactcgg catgagacgg ttgtaagac gaaggagcca 120  
gatgggtgta gtttcgtaa gactcctacc ggtgggtctc ttaaggacat aagtacgagc 180  
atacctaaag aataccccgg gaagcacggg gacacaaccg acgtcgctac aacgaaggat 240  
tgtcatatat aaaagtttag aggtcccggc cccaccatcc ccgtcgactt tatcgccgcc 300  
gatagagcga ccgatgacga atacgccact aacggaaaat tggccgaaac caagagaatg 360  
actttcaagg gagtcgtctt cccgaaagac cctaagatga agaagacccc cgccggcgga 420  
ccatttctag tctcaaaagg agacgaacct aaggaaactc ccctaagccc gggaag 476

<210> 39183

<211> 471

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-A7

<400> 39183

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cgtgcggggc gtccgcgacg cgtcgcgagc ctaagcaccc gcctgaggag aagacgagag 120  
aatgtcatag taacgtctta aatggactcg tctaatacgt tcggctgatt gtttcagccc 180

gcgcgggtca tttcagatag aaccactcgt cgcgccggtc cgcgcatccc gaccgcattt 240  
taagcacccc gaagcctcga atccaccctc gtcaaccggc gctcgaagcg gacaaaaaaaa 300  
aaaaaaaaaga agaaaaaaaaa aaaaaaaaaaa aggggtgggtg tctcagagga ctttaagtcca 360  
tgcatgtgcg tacgtgatgc tacagtctcc tcacagcgct attcaaacct aacctatcgg 420  
ttgctgcccc ataatgctgc gatcgggaaa atttcgggtgc catttaatcc a 471

<210> 39184  
<211> 432  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-013-Q1-K1-A8

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ccttatacgg cgtcaggaca cacaataaat cgacggatcc tacgtgataa tagcatagag 180  
acagaggaca ttaagaggcg ccgagtttaa acaccataa cacgtaatca cgggaaatcc 240  
tcggatatgt tgtanatcac aaggagaata cgcccgcccc cgagactgag aaataggaac 300  
ccggatccaa gttaacgaac cgcttaggat atcgctcaac gcccgtaac agggcctggc 360  
tgcatagaga gccgttctcc tgtacggtcg accccggagc gtcctacaga aacgagtcca 420  
gcggcgtctc ca 432

<210> 39185  
<211> 369  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-013-Q1-K1-A9

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taggcgagtc ttgttactgt gtttcgttct cttcatgttt gtggtatggg gcttggtttt 240  
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 aggtgtgttg atcgtaatcg ttctaagaat gttgntaggg gtgctagtgg ttctaattgtt 360  
 ggtaattgtt 369

<210> 39186  
 <211> 285  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-B1

<400> 39186

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 ccacaatata aaaaaaacga tcgttggcgc atgtctcata ggaccaaagt ccatcgtacg 180  
 tagtacgtca tgctacaggc tacgcaatac gatcgtaaca cataggttgt cggtcgataa 240  
 tccatcaatc ggcaatcaga cacaagtcac tagtatgtct tccac 285

<210> 39187  
 <211> 191  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-B10

<400> 39187

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 aagaagttaa tgggtggagaa gtgggctttt gtcggtaagc ttgttggta gcacggtcgt 120  
 gagggtaact gcggtaagaa gaacggtgag aagagtgcgc agatgcataa gactcact 180  
 cctaaggcgt c 191

<210> 39188  
 <211> 335  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-H3

<400> 39188

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tacttcctcg tcaactgcctt cgtttctctt tccaacaatc aagatgagcc gtggcggttag 120

cgcggttggt ggtcaaagtt ctctgggtta cctctttgga agcggtgagc cccccaacc 180

agcagtggca ccagctgtaa gtgctccacc tgctgctgca ggtgctccac ctgctgagaa 240

accacctgct gcaaagcctg atggcaccag tcagattgct gctgggggta ccagccaaac 300

caataactac cacagggccg acggtcagaa caccg 335

<210> 39189

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-F8

<400> 39189

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gttgctcttc ggaccacctc caaggctctt ggtgtagctt gccactctca ccaatcaagt 120

tttcatgtct gatctcgaca ttcagatccc aactgccttc gatcccttcg ctgaggccaa 180

tgctggggac tctggtgctg cagcagggtc aaaggactac gtacacgtgc gcatccagca 240

gcgtaatggt cgcaagagcc tgaccaccgt ccagggattg aagaaggagt tcagctacag 300

caagatcctc aaagatctca agaaagagtt ctgctgcaat ggtacagtgg tccaggaccc 360

agaacttgga caggtcattc agctccaag tgatcag 397

<210> 39190

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-F9

<400> 39190

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accgacatat tcagctaaaa atattgctga taatggcaaa gtaacatccg ggactggtga 120

aaacaagggt gaattcactt cacagactga aaataatggt gccgggaatc taaagtccac 180

cttgcaaacg attgtacatg gaggtgttgg ctatcatatg gtaaactgtg gtttgatact 240  
 gttgaagatg ttatccgaat acgttgacat cagtaaagt ttaccatcac tatctttgga 300  
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<210> 39191  
 <211> 350  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-012-Q1-K1-G1

<400> 39191

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 tcgctcgctcg ccggcggcgt agcaggcgga gtgtctcgta ctgctgttgc tccacttgaa 180  
 cgattgaaaa tattgcttca ggttcaaaat ccgcacagca tcaagtacaa tgggtactgtt 240  
 caggggtctca agtatatctg gagaacagag ggccctccgtg gacttttcaa gggcaatggg 300  
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<210> 39192  
 <211> 269  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-G10

<400> 39192

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 tttcattgtc gtaccggggg tgaacattta tactttgtaa actccgcaac ttccaacacc 120  
 cttagagcta tatccactct tacgactact acttacgggtg ctaccatcga gactattcat 180  
 ataaggggat aggcgtccga cgtctagctt gttctaagtt tctcaactgc aaggggtgcta 240  
 ctgcttacgc gcttggaatg ctatcgttc 269

<210> 39193  
 <211> 407  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-G11

<400> 39193

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gtgagagatg ccagaaatgg agaaaacaat ggcactgaag atggtgggaa tgaaggaatg 120  
aggagtggga atgttggttag caatgcagaa gctgaagagt ctacagggtca tggaaataat 180  
gaacgcgcag aacataccga agatgacaag ggtcaggaat gtagccacaa tgagaacagt 240  
gcaagtgtag gaatccttgg cgatggagac agtgaagcta gagaaggcga tataaatgcy 300  
gaagcggaac aaagtcaagc agacgggtggc ggcaatagta aagcggaaga tgctgagcac 360  
aatgaataca ccaaaactga cgccaattca agcaagaatg gtactac 407

<210> 39194

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-G12

<400> 39194

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tggcagggcg ccggtgccgg ccaagaagaa gacggataaa gtgacgaacc ctctattcga 120  
gaagaggccg aagcagttcg gcatcggcgg cgcgttgccg cccaagaaag acctgcaccg 180  
gttcgtcaag tggcccaagg tcgtgcgtat ccagcggcag cgccgc 226

<210> 39195

<211> 215

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-G2

<400> 39195

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gtcatgttta tacatgtggg cgtgaaagca cccgtccacg agatattcat gatctgcaaa 120  
ttgctcatct ccggctatgt atccagcgta gtgtctatgg ctgctacagc tccacttgaa 180

ccatcgaaaa tattgctaga cgtttaaaat ccgca

215

<210> 39196

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-G3

<400> 39196

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cgtcattgaa gtacaaggat gcagacttta tcattttcaa tacggggcat tgggtggacac 120

atgagaaaac tgctcttggg aaggactact atcaagaagg taaccatgtg tataatgagc 180

tgaatgtcat ggatgccttt cataaagctc ttctcacctg gtccaagtgg atcgatgcca 240

atgttaaccc cagaaaaact ctgggtgttat tcagaggcta ctcagcatct catttcagt 300

gcggacaatg gaattcaggc ggtggctgtg acaaggagaa gtaaccaata accaacgatc 360

agtacctttc 370

<210> 39197

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-G4

<400> 39197

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tggatggaga gcagttggct agttgttagc ggtttcccta gtttctcttc ctcttggtgtt 120

ccccgtttca gtttgcttat agccccgaag actcttttct cccgtagtgt cggaatgcca 180

gggtctgtcc ctgtgggtgt gttgcgtaac tgggatccga gtataccctg ctgtgttcgt 240

cgttacattg aatggatctg aatgaaagtg ggtagattg gagcttttct tc 292

<210> 39198

<211> 383

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-012-Q1-K1-G5



<400> 39198

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aatggccacc cttaccctgg gcaggattat caactttgac aagggtccagt ctgtgggttaa 120  
gccactcaac agggaggtga agcgcangga gaagaggaag aaccgcgtca cgaacatggc 180  
tgctgtgctc aagctcaacc cctacctcgg cactgcccgg aagatggcca cccttgctga 240  
ggctgcccga gtcaaggccc ggaaggagaa gcttgattcc aagaggacca agcttacctc 300  
ggagactgcc aaagtcaagg ctgccggcaa ggcgtggtac aagaccatgg tctcggacag 360  
tgactacacc gagtttgaga act 383

<210> 39199

<211> 353

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-012-Q1-K1-G6

<400> 39199

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ctgctgctgg tctctcctgt ctcgtcctcg tcatcgctgt cggctgctgc cacgctcgcc 120  
gtcagcgctc cgccccact gcctgttcct cctcctcgtc atgctcaaga cgccgaaggc 180  
atgctcatca acggcaactt cgagacggcg ccgcggaagc tgaacaagac cctgatcgtg 240  
gggcgccact cgctgccggg gtggacggtg canggccacg tggagtacgt ctcgggcggt 300  
ccccagcccg ggggcatgtt cttcgcggtg ccgcacggcg tgcacgcgct gcg 353

<210> 39200

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-G7

<400> 39200

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tatgatgcaa tacatagata cggtaacaaga ggttaactga tctgatcgga tcggacattt 120

atatcccagc tggggcagca tgcaatgggc attcttcagt ttggtctgaa cggccggcag 180  
 taatataatg gtgatcttgg agcctcatga caaacaagag gagacagcag gggaaagcta 240  
 gatgcgtttt gagacaatgc atgatgcttc gtcacgtaca gtatttgtaa atgccaactg 300  
 ctctgtgtcca tcaaattgat gaatgggcta 330

<210> 39201  
 <211> 372  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-G8

<400> 39201

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 aaaatggaat actggggaag tcaaccgtgc catgtcaggc tacgagattt tgctttcaac 120  
 ctcaaaatgc tcatctgaca tcttgtgtat tttccattta gcgtctgttc attggtgcac 180  
 cagaaatgca ttgggacgtg gtgtatcgtg tggcctgggc tctactaatg ttgacaatc 240  
 ctgaagtgcc accagtgggtg aacctgggtat aagcaggcgc cattcatgtc agctaatacgt 300  
 tgagaaaaca tatcagtga atcgtgcaac tgttagtgtg atgaggcagt tcctgcttac 360  
 atattattac tc 372

<210> 39202  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-G9

<400> 39202

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 atactgcatg cgctaggcat ctcatgtgaa ggtgggtgagg ttaaagcctt caagcaagct 120  
 cttctgaaat tccatccga cagggtatca aggaatgata tttatcaaca agtaaaagca 180  
 gaggagacat ttaagttcat ttcgcggctg aaggagaagc tacctcggct atcctaatag 240  
 ccatcccact cttttttcca catgccttgg cgcacctcc attcacctgt agggtaagg 300  
 tacagaattc agaggatgtt tattggcggt atttacaagt aactagggt ttagcttggt 360

aaatgtgttt ttgtgtgtgt gtgtgtgtgt tgggggttgg gttgggtagg cattcctgtc 420  
aactatgaca tgggatggta acca 444

<210> 39203  
<211> 443  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-H1

<400> 39203

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agtgtataga aaatgtcaag gttggagcta gtgttcaaaa gaccacatat acaatgaaga 120  
gagacatgct caccgctcac ggagagaagg tcattcttcg tgcccttgaa attgagaaat 180  
cccggtgcc acactcaaag ggtatttgag tacctgtgga tcttctgtat ccataaagga 240  
tcagatccca aaaccattg gtcaaactac tgaatgcagt aaacagggca tatcttatat 300  
ctgagattgt agatccaaga tgcagatcag cggtttgtc acccctattg gtcctttatc 360  
tgaagaaaat cacacgatcg acaagaattt gttgccgtg gagtgtgaag ggacaatgga 420  
atgccacaca cgagacaacg atg 443

<210> 39204  
<211> 278  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-012-Q1-K1-H10

<400> 39204

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gggttacgcc cctgtgcct cgcttccatg agaccccaca gcagcggcag gaaacattcc 120  
cacaccagac gccgagatcc atgccagtgg ctcatcttc ctcaacgatg gctgcctatc 180  
cgacctcgct gtggacctgc tgctcgccgt cgcgtgtgca ctttttactc cgagcagaag 240  
cccagatct gcgcaagccc cgcgttatta tcgacctc 278

<210> 39205  
<211> 319

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-012-Q1-K1-H11  
  
 <400> 39205  
  
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 caagcggagg cgggcagcgc ttgggagtca ggcgtgcgac cttgcggctg tgctcaggcg 120  
 gggcgttgcg tgaagcgcta gggagtcggg tgtgcgacgg gcggcgctcg ttcctcaggc 180  
 atgtgcggac gacgctcaga cgcattggctg tgtcgaccac ttgcagacga cgccgacaca 240  
 gatccaggtc caggctccagg ttaagtattg gtttttgggtg tgtggacgtg attcttctag 300  
 tgagatatgt tctgaagcg 319

<210> 39206  
 <211> 340  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-012-Q1-K1-H2  
  
 <400> 39206  
  
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 gcatcttgac cacaggcaca tggggctggg cggcgacgac agctggctgc cgtgcgtgca 120  
 cgagcagtac ctgctgccgc cgacgcggta cgccttctcc ctgcggctct gccccctgct 180  
 gccgtcgtcg tcgtgccatg acatctacag gtctcagctc cccagctgat ggtgccgtgt 240  
 gccggagacc cgtcgacgtc gagccttggg aaacaacaat gaacgcaatg gcctggccag 300  
 tgaatgaaag tatataatat tgtaataaag cagagacgta 340

<210> 39207  
 <211> 411  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-012-Q1-K1-F7  
  
 <400> 39207  
  
 agctcgcggt cgcggtttct tgcgccactc tggctcagcc gccgcccgcc acccgccaca 60  
 gccgcccag acgagatggg catcaagggt ttgacgaaac tgctggcgga caatgcgccc 120

aaggcgatga aggagcagaa gttcgagagc tacttcggcc gcaaaatcgc cgtcgacgcc 180  
 agcatgagca tataccagtt cctgattgta gttggaagga caggcatgga aactctcaca 240  
 aatgaagctg gtgaagtcac tagtcatttg caaggaatgt tcaaccggac aataagatta 300  
 ctggaagcgg gaatcaagcc agtttatgtt tttgatggca agcctcctga tatgaagaaa 360  
 caagagcttg ctaaaagata ctcaaaaaga gatgatgcaa cccaagatct g 411

<210> 39208  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-D9

<400> 39208

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 gggaccttaa tttcccaatg tatgtgttgt tacttgtaga cctagatgta tcaccagaat 120  
 ttattgatat tatatattct gtatatgttg cacggcagtt cttttttgcg gatagaagga 180  
 atttgccatt ttcgacaggc acggcagagc taaaactaag gtacagactg tagattttggg 240  
 tagattttatc cctcttaata aaacactgaa tagttccatc tcgaggccca ggctgcttca 300  
 aggaaacaag aaaagtgatt tttccagaaa actctgggct cttgacaatc tctctacaca 360  
 tctctctcca tgttctgcag acagctgcac aagcaactac atgtttccta gaaggccatg 420  
 ta 422

<210> 39209  
 <211> 177  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-E1

<400> 39209

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 ctaagacccc aaacacaagg cgcgacttta agaacggtgt gcgctccctc tactacacct 120  
 cccttgtagt aaaaggacag cttctgtttc taaagctact aatgccgtca gaaagcc 177

<210> 39210  
 <211> 414  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-E10

<400> 39210

gtcttcgtac tcgcctacct ccgcggtctca tacctttccc cctttctccca attcccgcgcg 60  
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 cggatatccag gtcggaaacg cgtgctggga gctgtactgc cttgagcatg gcattcaggc 180  
 tgacggtcag atgcccgggtg acaagaccat tgggggagggt gatgatgctt tcaacacctt 240  
 cttcagtgcg actggtgctg ggaagcacgt gcccgcgtgt gtttttgctg accttgaacc 300  
 cactgtcatc gatgagggtga gaactggcac ctaccgccag ctcttccacc ctgagcagct 360  
 catcagtggtg aaagaggatg caaccaacaa ctttgcccgt ggtcactaca ccat 414

<210> 39211  
 <211> 322  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-E12

<400> 39211

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 tctgagataa taactaacia agaaccagac ctacaacaga gcttacaaaa tagcggtgag 180  
 tgctgtgaac agtgctaaga acctgattat gatatgaagt atgacttcat gtaagactac 240  
 aacggacctg atgctggacg atatgcagct ggatgggctt gtggcgatcc tcatgaacat 300  
 cctgatgtac gcacagattg ag 322

<210> 39212  
 <211> 265  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-E2

<400> 39212

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 gcgccaacgt ctcccactgc gctcagctcc tgcattattcc cccgggctcc aaagacgccg 180  
 ccgtcttcag ccccgggggc gacaagggct ccaactgccg tacagccaag gacaactcga 240  
 cggcgacgac cgaattccgc gcgct 265

<210> 39213  
 <211> 284  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-012-Q1-K1-E3

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 tactataata tggtgggtgg acttaatgat tgngaattgg atgtgttaca taattgttta 120  
 aatggaggta ttggttgant gatgaggatt aattattgaa aaaaaaatt gggggcatgt 180  
 ggtagataag taatgatgtt taaatagaga gaaatagatt atttatttaa attgttatga 240  
 tatatatatt tatatttatg tatatatata tatatatata tata 284

<210> 39214  
 <211> 405  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-E4

<400> 39214  
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 gtctggtctg tctcggcgct gttaccttga tcagcgcgac aggaccacca aacggactcg 120  
 ctgcggatgc gatgaacaag gccgggggtac agaaagctgt ttgcaggaac tgtaatggca 180  
 gtggtgctgt gatatgcgac atgtgtggtg gcacagggaa atggaaggcc ctcaatcgga 240  
 agagggcgaa agatgtttat gaattcaccg agtgcccgaa ttgctacggc cgcggaaagt 300  
 tgggtgtgcc tgtctgtctc ggaactggcc tgccaaacaa caaggggctc ctgcgacgcc 360

cagaagccaa gcagctgctc gacaagatgt ataacggcaa agata

405

<210> 39215  
<211> 413  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-E5

<400> 39215

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ccgtccatc ccgtaacgcg acaccatgag ggagtgcatt tcgatccaca tcggccaggc 120  
cggtatccag gtcggaaacg cgtgctggga gctgtactgc cttgagcatg gcattcaggc 180  
tgacggtcag atgcccgggtg acaagaccat tgggggaggt gatgatgctt tcaacacctt 240  
cttcagtgcg actggtgctg ggaagcacgt gccccgtgct gtttttggtg acctgaacc 300  
cactgtcatc gatgaggtga gaactggcac ctaccgccag ctcttcacc ctgagcagct 360  
catcagtggg aaagaagatg cagccaacaa cttttgccgt ggtcactaca cca 413

<210> 39216  
<211> 429  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-012-Q1-K1-E6

<400> 39216

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cgttaaacad cataaggaat ggtttttctg tactggagag aaagggaaag cctcatgttc 180  
catctcttct tttaggagca aaactatggt gtaagaacct aaagcatgct tccgaaggga 240  
taaagtttgc aaataaagcc atgaagtctt tcagaagtcg tgatctgcat ttcacagca 300  
ctacaaaaca ctttcttggt gtttggtatg gaccttttc taggtcctcc acctcatact 360  
tggacaaatc gagactgcaa gataatgcac tgaggctggt gcangatgct gccacaacag 420  
cgaagtata 429



<210> 39217  
<211> 300  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-E7

<400> 39217

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tgcttctgtt ttgaaggcta ctagtgccgg gagaaagccc tctgctgcca attcgatcag 180  
tagctctgtg ttaagtattg gatcaaggcc aaaggccttg agaagaagct gggaaggaaa 240  
cacggatatt aaaggaaaag gcaattcaga atcaaagaca gccaaacctg acaagaagtc 300

<210> 39218  
<211> 316  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-012-Q1-K1-F1

<400> 39218

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ctcgccctggg ccacggacga ccactccctc cacaacgcct tcagcaccta cggcgaggtc 180  
ctcgagtcca agatcatcct cgatcgggag acgcaaaggt cccgcggctt cggcttcgtc 240  
accttcttca cggaggaggc gatgcggaac gccatcgagg gcatgaacgg caaggagctg 300  
gacgggcgca acatca 316

<210> 39219  
<211> 445  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-F10

<400> 39219

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 ggcaaagtgc agtggaaacc tgccgagaac ggccgggcag ccacttggtg taagagatac 180  
 ttcatgagc cagatggaga tgatcccggt gtacttgaca tgagctcaat ggacaaagga 240  
 atgatttttg tgaatggtga aggcgtgggt agatactggg tctcataccg aactcttgct 300  
 ggaactcctt ctcaagcact ataccatatt ccgcgtcctt tcttgaaatc caaggacaac 360  
 cttttggttg tcttcgagga ggagatgggc aaagccgatg gcacccctgt gcagaccgtg 420  
 acgagagacg acatatgtct gttca 445

<210> 39220  
 <211> 372  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-012-Q1-K1-F11  
 <400> 39220

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 aaacctcac ggccgcctcc acaatgccgc gccatctcgc gctgctcctg ccctgctac 120  
 tgctggcctc gccggcggcc acgcgcctgg cgtccgccgc ctgcgcgggc gagaagttcc 180  
 cggcggggcg tgcgtacgcg tcgtgcgagg acctgccgaa gctgggcgcg tcgctgcaact 240  
 ggacgtacga cgcgtccaag agctccctgt cgggtggcgtt cgtggcggcg cccgcggcgg 300  
 cgggcgggatg ggtggcgtgg ggcctgaacc cgacgggcga gggcatggcc ggcgcgcang 360  
 cgctggtggc gc 372

<210> 39221  
 <211> 121  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-012-Q1-K1-F12  
 <400> 39221

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 ggtttggtgt atcagctttt gttgccgggt aaaacgcctg tgagctgtga tgtgatgctt 120  
 c 121

<210> 39222  
<211> 360  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-F3

<400> 39222

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cgggccgaac tccgtctgct tcctctgagc gtccgggagg acaaaacacg cggcgaggac 120  
caggatggcg attgtgcggg aggaggcagt ggacacgtcc atcagcccaa ggggtgagcg 180  
gctgcggccg tccaaaacca tggccatcac cgatcaggcc atggcgctgc ggcaggcccg 240  
cgtgccggtt atcgggtctag ccgcggggga gccagacttc gacacgctcg ccgcgatcgc 300  
ggaggccggg atggatgcaa ttaggaatgg ttatacaaga tacactccta atgctgggac 360

<210> 39223  
<211> 384  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-012-Q1-K1-F4

<400> 39223

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atctaggatc gctcgggttc atcgggtgttc ctctgaccc gcagtggtcg atcgacacgg 120  
agatgcacct caagagcgtt gttcatctgg acaggctctca ggaggtagtg aacattgttg 180  
ggagcaacgg acagacctca cctagggaca aaagagggtg cagagaaac agggcatga 240  
gctcggcctt cgtccccctg tttcacctca gcatagagct gccaaatgag gaggatgcag 300  
aagggacggt gcaggtccta caggcactca tcgagaaggg caaggcacgg aggtgggaca 360  
agaacatnct acaccggagc aaca 384

<210> 39224  
<211> 305  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-012-Q1-K1-F5

<400> 39224

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tgttttttga cgggcgtctg ggaggtccaa actaccgac cctctcaaaa aacagcgtag 120  
accatcttaa ggggaaactt aaattaaaac caagggtcag gcgcgttcga tcagagcaac 180  
gagcaacaca cagacgtaac cgaacgacaa aagatgtaca tgcacgcaca cgtccataaa 240  
ctgagtaatc gtaaaaacga cagcaccgat caaaaatctc acaaataccg aagtttcact 300  
gggaa 305

<210> 39225  
<211> 421  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-F6

<400> 39225

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gagcgggagc tggagctaga tcccggggag caggagcggc ggctgaccgt gatcgcgagc 120  
aaccgcgtgc ggcgcgcgc cagctacgac ctccaggaca gcgtgcagca ttcggcagcg 180  
tccaccgtgg aggtgcgcgc cacggccgcc gacagcatga gcccagggga cgcggagatc 240  
agctcggcgg cggggccgaa gcaggtgcgg ttcttcacgc acagccacgt ggtgagcccg 300  
gaggccgcgg agaacaagca ggtggcggat gagctggagg cgctggcggc ggcccgggaa 360  
gccggcactg cgttcacctt ggggcattcg cacgtgcagt gcaagccccg gtcgttggtg 420  
c 421

<210> 39226  
<211> 440  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-012-Q1-K1-D8

<400> 39226

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 ggggttgctc aaagaattct gagcgaactc actgcaagag aaatttcaaa agcttatgct 120  
 caatgacatg aaagagctct caagaattca agctgaagtt ggtctacaga tgccactgat 180  
 gtctccgctt gattctgatg aagaaaagta ttctgtggct tctgattctg tttcttcagc 240  
 tgatcatgag aaggctcaac atggtggaaa ctcatctgac tcacagaata ttgattgtga 300  
 tcataccact gaagattttg aatccagtga tactctctta acgaacagtt catncctgcc 360  
 tccccagcct caaccacctg tgcctcctca tatggactcc tgatatcgat ttatccgaac 420  
 tggagagctt gttctccact 440

<210> 39227

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-C12

<400> 39227

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 gcgatggatc ccacctactt ttcatgggct cacttccaat gcacacgccc aggacggatc 120  
 gtcacccgtg caattgtcaa tacactagag ttcctcgtta ttgccccagc aggcagcatg 180  
 ggagcctaca acgtcctgat gagtgctct gatggccttc taaaagggtg ccgggaaggt 240  
 atcttcacag cgaccttctt cgtcctgggc cgcaagccta tcaaggaagc tgatatgggtg 300  
 aacgggggag tcctttgagc tgcaacatta gtatgggggtt gtactcata 349

<210> 39228

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-C2

<400> 39228

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 ctgcgccgtg gtgccctcct cagtcctcac tctcccgcgc ctggcgccgc cggagcgagg 120  
 gggactgccc aaaccctact aggactagca gtaggaggcg gaggggag atccggcgga 180

ggccgccccg atgggggact tcaacgtggc actggtgac gtggcggcgg tggtcagcgt 240  
gctggtgctg ctgctcagcg tctaccttct cgtcaactac cagcaccgcc acgacgtcaa 300  
ccaggcctac ttccccaagc tcgtcgtcgt gctc 334

<210> 39229  
<211> 370  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-C3

<400> 39229

gaagagctgc tgccaccaa ccaacaaaag tattctacaa taatcatgct tagatcatct 60  
ctggtgatat caaccctcct gattgctcta tctgtgcctt tctttggact tgtgatggcc 120  
ttggttggtt ctttgtttgc catgcttggt acctacattt tgccttgccg ttgttttttg 180  
gcgatcctca agacaaaagt ggggtggcat cagatagcag cttgctcgtt catcatagtt 240  
gtcgggggtt gctgtgccta cgtgggaaca tactcgtccc tgtcgaagat aatccagaac 300  
tacgcatagc acagctgttc ctgtgacct gtatatgcat ctgcccagaca aaatcatgtg 360  
tgtgctatat 370

<210> 39230  
<211> 393  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-C4

<400> 39230

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actaatgaga acctcccgcc aaatgtcatc aagcaattgg ctaaagaact gaagaacctt 180  
gatgagtcac ctccagaagg gattaatgtg attgtcaatg atgatgactt cactactatt 240  
tttgctgaca ttgaaggccc tgctggaact ccatatgaga acggagtatt caggatgaag 300  
ctattattgt cagcgcattt ccctcaatct ccccaaaaag ggttcttctt gactaaaatt 360  
ttccatccta acatagctac taatggtgag ata 393

<210> 39231  
 <211> 432  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-012-Q1-K1-C5  
  
 <400> 39231  
  
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 atcacggtga agatgacgac agcaacggcg atgcagatca gcccttgatc aacacgatca 120  
 ggtcttccgc cgccaagcta cggtccttga agatctctca acagggacca agcagccaaa 180  
 aaggggtccc tggcccatcc ggaagcaata gctgagagga tgcattgcagt gccctcatc 240  
 gttggtgatg atttccagac attgactgac cgattcaagc agcacagggg gctggcacta 300  
 acatcagttt gacgaggaca ccattccacg cggagctgca gtcattccgt ggttagctgc 360  
 ttggtctaatt tgtgtaagcg ctgtatatga tttgcacttg ggttctgtga ctccctttgg 420  
 atgcggggccc ct 432

<210> 39232  
 <211> 316  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-012-Q1-K1-C7  
  
 <400> 39232  
  
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 tgtggttagc aacttcattg ctgaggctgt gcgtggcgaa ccccttactg tccagaagcc 120  
 aggaacacag actaggagct tctgctatgt cgccgatatg gttgatggtc ttattaggct 180  
 gatgaacgga aacaacactg gaccgattaa cttgggggaa ccaggtgaat tcaccatgct 240  
 ggaacttgct tagaatgtga aagagttgat taaccagat ataacagtga cgatgaccga 300  
 gaacactcct gatgat 316

<210> 39233  
 <211> 376  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-C8

<400> 39233

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agagcatcag cttcacgctg cgtgttcttg ctgatctatc cctcctactc ttttgcgctc 120  
tgcttgacc tgtatgttca gccacaccag ccacagctcc tgctgttctc ctgcaagtga 180  
agtccggcct cactgacccc ggaggcgctc tctctggctg gtcactggag gccgacgtgt 240  
gttcatggca tgggtattacg tgcctgcccg gtgaggtctc accgggcatt gtgacaggcc 300  
tcaacctgtc cgggcacggc ctgtcaggcg tgataccgcc ggcgatgagt ggctcatct 360  
ccatcgagtc cattga 376

<210> 39234

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-D1

<400> 39234

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tcaggcctct acagccaggg cttctcccct gcaagaacct tctccccca gattaggagc 120  
aaccgacg ctgacagcca gtacttgcc gagcttctcg cggagcatca gaagctgggg 180  
cccttcatgc aggtgctgcc gatatgcagc cggttgctca atcaaggtga gagatccttt 240  
ttttccacc cctcgcttgc tctgtgtgct ttgctgattg gtgacaaatc ctgtgcgctc 300  
gagcctccga ggggtgttct ctgcaatcgg gactggggaa tcgagaggct tcaatgatcg 360  
gatggctgct gatctttttt ctgcggcttt tatgctggcg ggggatg 407

<210> 39235

<211> 224

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-D10

<400> 39235

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cgtgcctcgg gtacgcgatg ggcagcgcgg cgtcgccctc cgcggcgtgc tgcagcgggg 120  
 tgcgctcgct caacagccgc gcgtcgtcag cggcggaccg gcaggccacc tgcaactgcc 180  
 tcaagagcat gacgggccgg ctcggcggca gcatcagcat ggcc 224

<210> 39236

<211> 431

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 39236

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 ctgcgtcttc atcctcgctt ccgtggaagg tcgtctcgac atggcctccg agacggagac 120  
 gttcgcttcc caggcggaga tcaaccagct gctatcgctc atcatcaaca ctttctactc 180  
 caacaaggag atcttcttta gggagctcat ttcaaactcc tccgatgcct tggataagat 240  
 caggttcgag agtttgacgg acaagagcaa gctggatgcc cagccggagc tgttcatcca 300  
 catcgctcct gacaaggcca acaatactct gacaatcatt gacagtggca ttggtatgac 360  
 caagtcagac cttgtgaaca aacctggtac catngcacga tctggcacia aagagtccat 420  
 ggaggcactg g 431

<210> 39237

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-D12

<400> 39237

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 taacacaatt ttttgtcatg ttaaataacc aggccaccaa agagtggcgt ctccaaacca 120  
 agagcacaga gccagtcttc tccgttttga tattgccatt gttaagtagg atcaacgtat 180  
 acatgcatta ttgggggtca tttttgggtt tgtcctcacg gataattgat ggaaataaat 240  
 atgaaagaag ccaatcttgg 260

<210> 39238  
 <211> 381  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-012-Q1-K1-D2  
  
 <400> 39238  
  
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 atggtttataa tgtggaatct gatgaccagg aaaagatcaa gtacctagca gaaggggaagc 180  
 tggttttcttt ttgcggacag gttttgaaag aggcgtctga tttacagcct agcactgggg 240  
 aggctgccag tgcagacata catcgtgtat tagacttacg ggcacctgtt attgttaagg 300  
 ttttgaaagg aatgtgcatc atggatgctc agatcttcaa aaggcacctg aaagagttct 360  
 atccattaat taccaaactt a 381

<210> 39239  
 <211> 349  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-012-Q1-K1-D3  
  
 <400> 39239  
  
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 tcctgaagat gtctgaacct cctcgtgtct tgtcatggat gactaagggc attgcctcag 120  
 gtcttgatgt tcttttcata aacaaatttg aagaacaacg taaagattat tgggaaacac 180  
 tatactcatc ggtgcatttt ggtccaatac taatactctg ctcagaggat gatcaacttg 240  
 ctacatatcc agttgttcaa aattttggcc agcatctgct agagcttggt ggtgatgtga 300  
 gcctaattaa atggcatagt tctccgcatg tcggccacta caagcacca 349

<210> 39240  
 <211> 260  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-012-Q1-K1-D4  
  
 <400> 39240

agccagcaca cgcacactgt tctttcgact tccatctcgg ccggagcaga agatggaggt 60  
 ggctctggga acggccaagt atctccttgg ccatgttcag aacaatatct ccgacgactg 120  
 gatgaattcc tacgtgtcca gcgccgagct cggcaccaac cttaacatga tcaaagagaa 180  
 gatgcggtac gctagagtgc tgctggacgt ggccaaaaag agggacgacg tcgtcgccgg 240  
 ggaccccaac cggctggagc 260

<210> 39241  
 <211> 437  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-D6

<400> 39241

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 ctcggtctgg ccatgtccga gatccagcgg ctgaagcagc agctggaagc ttcagcagag 120  
 tctgacgcgg cccgcgcgaa gcagtgcgag tacgtggaag ctgagatcga gggcttgaag 180  
 caggagatgg agatccgcct agcgaccatt gagggcctga aggtgaatgt cagcgagagt 240  
 gacagggctg cggctgaggg aatgccacg gtaaagcaga ccaagcagca gctggagaca 300  
 gcgaaggcca ccattgactc actttagctg gagggcgtag gcatgcagga atgcctgagg 360  
 tcgaaagaca tggagctcaa tgagtccaag gctctcgtag catcgctcca agaagatatg 420  
 gagaagtcac atgacac 437

<210> 39242  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-D7

<400> 39242

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 caatgacatg aaagagctct caagaattca agctaaagtt ggtctacaga tgccactgat 180  
 gtctccgctt gattctgatg aagaaaagta ttctgtggct tctgattctg tttcttcagc 240

tgatcatgag aaggttcaac atggtggaaa ctcatctgac tcagagaata ttgattgtga 300  
 tcataccact gaagattttg aatccagtga tactctctca acgaacagtt gatccctgcc 360  
 tccccagcct caaccacctg tgcttgetca tatggtctcc tgatatcgat ttatccgaac 420  
 tggagagc 428

<210> 39243  
 <211> 449  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-012-Q1-K1-C11

<400> 39243

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 aggaatttat gcgggcacgg acataattga tgtgcagtca tgataaaaga caaccatttt 180  
 actagattca ttcgcaatat tggctcgggtga ctgtagatgg cagaatggaa tggctgggag 240  
 cccatgaaga ctgcaatctt tgtacgctag gatgtatttg taatgttgta cttgcaaact 300  
 gctaacttat ttctagttta agtatatgag acaattttgc aagttgcgcc tgaaagtata 360  
 ttttctttct acgtctctat gttctggggg tcgcttgetc tcatnctgcc attatctgag 420  
 gtctatgttt taaatttggt tttctatat 449

<210> 39244  
 <211> 439  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-A5

<400> 39244

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 tttgctcagg taaaggatgc cagtgatgag gaacaactaa ctggagatgc gggatgctct 180  
 gagacccatg gggccgagga gaatggctct gacaagcaga tatagcgaag acatggactc 240

ttttggagtc ttggtacatg gcctgacgct gaacctgggt aaaacaggag tacgatgttg 300  
 caatgtacat accaaccatg cgctgagttg gcgtgaaaga tatattcatt gttccactgt 360  
 tgtctttaac caaacgtgct tgtttcttcc gggtgtgatt tttggtgatc tgacaatatc 420  
 taattataca tttgggtgg 439

<210> 39245  
 <211> 324  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-012-Q1-K1-A6  
 <400> 39245

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 agtatcatgc cgcccacaac caaaagccat accagctaca gaagacaccg ccctcgacgc 180  
 caccgtatgc ctcaatagca atcaagacga agagaaaccc accgaaccgc ccctgctcca 240  
 gaaacccaaa cttcctaagc tcaagtcgta atagcatcag ctacacaact cctagcaaca 300  
 cacaagccca ctgtacacct acgt 324

<210> 39246  
 <211> 75  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-012-Q1-K1-A7  
 <400> 39246

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 aatttaatat tcaac 75

<210> 39247  
 <211> 70  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-012-Q1-K1-A8  
 <400> 39247

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tctatatcgc 70

<210> 39248  
<211> 297  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-012-Q1-K1-A9  
  
<400> 39248

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cgggcaaggg cgccatgggtg gggagcagcg ccgtcgctcg gtgggtggcc aacggcaggg 120  
gcaccgtcaa gcagtactac ctcggcgggga agagccccga ggagtgcgcc cccaacaggg 180  
gcctcctcaa gctcgtcagg aacaggaccg ccgtcgctc gcgctccggc cgcctctacc 240  
tcgccttcca gctcagcacc gactaccgc agccgtacct gatctacgcc gtcgggc 297

<210> 39249  
<211> 284  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-012-Q1-K1-B1  
  
<400> 39249

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aacgcgccac cggccaactc tgccgcccag gcgcctncag ccggaaacct ggcgccggcg 180  
ccccagggcg cgtcgggagg caagaccgca cctgcgcca ccggcacttc accttcgggc 240  
ccgaccactt cgcccccgcc cccgaccaca acctccccgg gttc 284

<210> 39250  
<211> 446  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-012-Q1-K1-B10  
  
<400> 39250

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 tggcaaatat ggaaccaggt atggtgctag cttgcgtaag caaatcaaga agatggaggt 120  
 atctcagcat tccaagtact tttgcgagtt ctgtgggaag tttgctgtga agaggaaagc 180  
 agttggaatt tgggggtgca aggactgtgg gaagggtgaag gctgggtggg cttacaccat 240  
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 agcatgatat agctctttat atgattgggg tttcctgtag ttgctcttgt caggcatgtt 360  
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 tgctccttat atttggttta tgctct 446

<210> 39251  
 <211> 437  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-012-Q1-K1-B11  
 <400> 39251

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 cgacctcacc gactacctca tgaagatcct gactgaacgc ggctactcct tcaccaccac 180  
 tgctgagcgg gaaattgtca gggacatgaa ggagaagctc gcctacattg ccttggacta 240  
 cgaccaggag atggagactg ccaagaccag ctcttctgtt gagaagagct acgagctgcc 300  
 tgacggacag gtcacacca ttggtgctga gcgcttccgc tgccctgagg tcctcttcca 360  
 gccatccttc attgggatgg aagctgctgg tatccacgag accacctaca actccatcat 420  
 gaagtgcgac gtggata 437

<210> 39252  
 <211> 430  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 39252

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gagaagcatt caactgtata cttcaatcta gctgagggtc agaaggcact tcatgttaat 180  
acagtcattg gaaaatcaaa atgggagact tgcagtgaag ctgttaatac tcattgggga 240  
gattgcgaaa gatctgtgct gcatacttat catgaactta tacagtatgg cctccgtata 300  
tgggtgttca gtggagatac agatgcagtg attccagtga cttcaactag atacagcatc 360  
gatgctctca agcttccaac aataactcca tggcatgctt ggtacgacga tgacngtgag 420  
gtcgggtggat 430

<210> 39253  
<211> 337  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-012-Q1-K1-B2  
<400> 39253

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taccgccccaa agaagttgta aagctagggg ctccaggagct ggttaattat atgaagaata 120  
tggttgctgc aagggaagtg agccagaatc aaacagataa gaggagcttc tggacctggc 180  
tccgctcact gtttggttgt tacaaaaaga atcaaggatt gggaccagtt ccagcctagc 240  
tgaaccatat cgtccgcatg tattgtcatg aattattcag ttttgctcca tctctcaagt 300  
cagcgacgaa atgaggcatg actactatta ttatttc 337

<210> 39254  
<211> 244  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-012-Q1-K1-B3  
<400> 39254

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caggactgaa gactatctta agctttgctg ttccctgatca gagatctgga aaggttgagc 180



ttcagtat ttt gcatgattat gctggagtta atgcaagcgt tagtctgaca gccaatcctg 240  
tagc 244

<210> 39255  
<211> 400  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-B4

<400> 39255

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gactacgccg tcagccggga gcagacgaac gcggcggggg agaggatgta catccagacc 180  
cgtatggcgg agtaciaaaga ggagctgggg gagctcctga agaaggacaa cacctacgtc 240  
tacatgtgtg ggttgaaagg catggagaat ggtatcgatg acattatggt gtcactggct 300  
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<210> 39256  
<211> 410  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-B5

<400> 39256

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tgccctccggg gatgacgcgg cgaagctgca ggagctcgac gagatgaagc gcaggctgaa 180  
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gcaaggaggt gaccctagtg catctacagc tgaggcaaag gagcaggtgg atgcccgttc 300  
tgtgtatgtt ggaaatgtgg attatgcttg caccacagaa gaagtgcac agcatttcca 360  
agcttgtgga actgtcaaca gggtcacaat cttgactgac aagtttggac 410

<210> 39257

<211> 336  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-012-Q1-K1-B6  
  
 <400> 39257  
  
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 atgaggttat gggcttgat gccactgctc tgtcttatgg tgacctgtgc aagaggggtcc 180  
 ttcggtgctt tggccctcg gagttttccg ttgccgtgac catcttcggc gggcgtggcc 240  
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<210> 39258  
 <211> 176  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-012-Q1-K1-B7  
  
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 ggtacctggg gttacagcag ttcacctgtg tttgatacat ctgccttggt acatttttgt 120  
 gttgagttgt cggaacacat ctattatcat ctctaccata aaattgttgt ggcct 176

<210> 39259  
 <211> 394  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-012-Q1-K1-B8  
  
 <400> 39259  
  
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 cggcatttca cgagttatga aagtacaaga aaggatacta aatctcgtcg ttaattgaat 120  
 tcagaataga aagattcaga ataaacaaaa tttataggat tcaaataatc aaataaagta 180  
 aaggtaggcg ggtaataacc ttatttatga caagtttcaa attggtaaag tataccccta 240

ggataaaagaa gaagaaaggg ctgagaaaac tcgcaagaaa agttccaacc gatcgtctac 300  
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<210> 39260

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-B9

<400> 39260

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 gaagaaggcc gaggagcacc acaagaagga ggagggggag caccacaaga aggacggcgg 120  
 ggagcataag gaaggcatcg tggagaagat caaggacaag atcaccggcg agcacggcga 180  
 caagtccggc gaccacaagg aaaagaagga caagaaaaag aagaaggaga agaagaagca 240  
 cggcgagggc caccgaccag accacgacgg cggccacagt agcagcagca gcgacagcga 300  
 ctgagatctg gtgtcgcagc acaggtgcaa cacaagtatg cttgctggat ggaggattca 360  
 taccagctga tgctgatgta gtgtttcact ggtgtcatgc atgcatgtat cgggctatta 420  
 taatcaaaaa gaaaaaagaa a 441

<210> 39261

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-C1

<400> 39261

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 tgatgactgc ttgagtgagg ctgcaacctt tcaaattgcca actgctctgc gaaggttatt 180  
 tgcaacaatt cttgtatctt gtgaggccac taatgtacgt ggactgtggg acaaacacaa 240  
 tgactcaatg tctgaagatt ataaccgaga caatcctaaa tcgacatgcg tacaacaaat 300  
 ggtccttaaa gacattcggg agttgggttcg gtcgatgggg aaggatatca aatcttatga 360

tcttcctgag attaatgata caggtgaatt ttgcaatgat ataatgagag agc 413

<210> 39262

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-C10

<400> 39262

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gctggagaaa gtgaggaacc aacatatggt aatttggaca tgggtgagga ggaggatgaa 120

gtagatatta ggagtcatt gagcagcagt agtaagaaga ggactggcag caatactgat 180

acagccagta gtctcctag gaagcataaa agtccaatga ttgaatgcga agctttgata 240

gacaccctac aatctttaa ctccaaagac ttggatgtgg ccaaacagat acaagaagac 300

cacatagcta aaaataagaa gttagaacag gaaaaagaga ataaggagat agataaatgt 360

ttcgaactgg ccaaagaatg tggagcaact gaagagacag aggagttcta tgt 413

<210> 39263

<211> 375

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-011-Q1-K1-H10

<400> 39263

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agcccgagca taaggacttc gccgacggtc tcgcgcttaa gtattagggt acttgacatt 120

ctcccgagga cggcctatga tcggcgccct gttctctcgg aattggcctc gccggcgcta 180

ttacttgccg tcatactgag tagcatgaga gggatcttct caagattggg agggacctat 240

aggatgtttc cgtcttgtcg gccgacgccg tgtctaagtc tcttaagacg taagagcata 300

tcggatgtct cgtttttatt gctactatac anaccccgaa gagcgcccca gaacgagccg 360

aggtgtccat ataaa 375

<210> 39264

<211> 369

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-H11

<400> 39264

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 ttcgtttatt gcttcttttt attatacggg tagcttagtg tatagacaca gtagtaacta 180  
 tccaacgtca gtcttctctt ttgcgagtt gcagtcctat ctcgtagcta tcttggttac 240  
 gggtttacgg tcacacaagt tgcgagtcg tgacgttata gtattgtgtg gttctaagta 300  
 gtcttccctc ctagtagtat agtcagtcag ttacggggag taagggggcg gtgtctgtgt 360  
 cgtcgtctc 369

<210> 39265  
 <211> 349  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-H12

<400> 39265

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 aggaccgaag gccacgagg tcgccggcg ctacgcctag atggaatata aaaaaaggg 120  
 tggttgtctc agaggactta agtccatgca tgtgcgtacg tgatgctaca gtctcctcac 180  
 agcgctattc aaacctaacc tatcggtga tgccccataa tgctacgacg gggaaaattt 240  
 cggtgccatt taatccaaca gttccgtact atacttattc cctgttagtc ggtgcaacag 300  
 tgaagagggtt tgtattgact gtttccttta atagcogtgt aattcgaac 349

<210> 39266  
 <211> 341  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-H4

<400> 39266

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gggacacctt ttatgagggtg gtgcttggtg gaaggcgac tcaccaagc actgtaatac 120  
 ctgaataaag agaccgacac ccttattcgg tgtagattg tgcgtcacac cgtgaagcaa 180  
 tattgccttt cgtactctat atccagaaaa cattgcgcag gaggcctttc ttaataaaga 240  
 atcttgaaaa tggtatgcgt aaattcctgc aatccttgga gttctttgag gaaaatgaga 300  
 ggaagaaact cgccatattc acagcccttg cttttctca g 341

<210> 39267

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-H5

<400> 39267

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 ctcaaaacac tatctgcctg caaccgacta tgaacacctt caagctgaga tttcaccgtg 120  
 ctcagcgatc aagccaatta cagatactcg acaagcttcg cacatctact agacatacca 180  
 ctcacgcgcc tcagtaacca gactaataga cgctccctgg tgtcagtatt ctacaccgac 240  
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<210> 39268

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-H6

<400> 39268

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 gggtgtgctt tactgaccaa aggtttcgag tgtaacaaga ttttggtcgc tagcaacttg 120  
 ctgcaactgc aaccaaactc ctttctgata tgagataatt aggacaaaac aacagagcta 180  
 agttgctttt ttttggggtc atgttaaaca atgtatgcag tattgctagt gccctcttg 240  
 aaaacagtta ctgacaacca tatgctgtga aaaataaatt c 281

<210> 39269

<211> 455

<212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-011-Q1-K1-H7

<400> 39269

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 atgtcaacga tccggcttcc gcagactgat ttactgtcat attcaacaaa gccagagatg 180  
 agaagaaggg tgggaatggt caagacacag actcaccttc caaggacccc aggactgaga 240  
 ggggtggagtc ttatgctgca aaaccaagca cgaagaaatg gttttgttgt gtgacagcca 300  
 gccctacgca atcctgagga aggcaattgc atgcgctgga aatactgccc ctttaatttt 360  
 ctatacatatc tatccattag aactgtana ggtacccatg gctctctggc ttccagatgg 420  
 gtgtctcata aaactctggc gtgcatgtat gtatg 455

<210> 39270  
 <211> 312  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-011-Q1-K1-H8

<400> 39270

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 gactcgtggc tgtacgagaa gttcacgact tgagggaact tgcgcgcgga ctacaacgtc 180  
 gcagggcagc acgtgacgtc tctgatcctg acgcagcagt ccggcgggcg cttcagctcg 240  
 cggcagaagt acctgtacgg ngagttcagc atccagatga agctgatccc gggcaactac 300  
 gcgggcacccg tg 312

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 <211> 471  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-011-Q1-K1-H9

<400> 39271

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ctatcactgc gggatatcga tcgacggact agcccctgac ctgagtcacg atagaggcga 180
tttgcccgaa cctatttccg gaaacgggta agcgacaaaa ggccgggatt aaggaccgtc 240
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tgttgcta at gggaagatac ttggtggcgt aaaggtagag agcgacagcg agtctcgaca 420
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 <211> 285  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-A1

<400> 39272

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accgtgctt cgtcggcggc ctgcctggg ccacggacga ccactccctc cacaacgcct 180
tcagcaccta cggcgaggtc ctcgagtcca agatcatcct cgatcgggag acgcagaggt 240
ccgcgggctt cggcttcgtc accttctcca cggaggaggc gatgc 285

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<210> 39273  
 <211> 405  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-A10

<400> 39273

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accttctcac tcgcagctac atcactgggt accaagcttc caaggatgac ttggctgtct 180

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acacttcggtt ttcgtctgct ccctcgtcca agtatatcaa cgtagcaagg tggtttaatc 240  
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aatcctcagc agttccttca gcccctaactc cagatgttgc tgaagcacag gcccagctg 360  
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<210> 39274  
<211> 484  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-012-Q1-K1-A11

<400> 39274

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ctcaaaaagc tcgatgagta ccttctcact cgcagctaca tcaactggcta ccaagcttac 180  
aaggacgact tggctaggta cacttcgcat acgtctgctc cctcgaccaa gtatatcaac 240  
gtagaaaggt ggttcaatca cactgatgcg cacgagaggc tgagcagaat tactgcagag 300  
ggccacggtg tgaagggtga atcctcagca ctaccttcag cccaactcc aaaatgtgct 360  
tgaagcacag gcccagctg ctgaggagga agacgaggat gatggcgacc cttttggtga 420  
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caag 484

<210> 39275  
<211> 409  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-A12

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cctcagttgc tatcaggagg aagaggtacc cagctaaccc gccctgctcg agtttcccaa 240  
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ctgtacacgt acgtacgcag gctgaggctg aggaagttgc gagccggagc agaggccatg 360  
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<210> 39276  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-A2

<400> 39276

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tctccaacct cgatctactc gtggccagga gccacagcc caccgtatac gtgtaccggc 180  
ccagccctga cccggac 197

<210> 39277  
<211> 105  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-A3

<400> 39277

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ggattattaa aatagattgg ggggttaata aatttaagat ggggtg 105

<210> 39278  
<211> 464  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-A4

<400> 39278

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ctgctccaac aatgacggcg ccgcatccaa caccaaatac ggtgatacgg ttgacaggtg 180  
 cgtttgtag ctgttggtggc atgctgggct gatttttaggc caccgcctgg tttcaacttt 240  
 caagtcattg aatcgggtgct cagggctcct ctcttcacc ctgcgaaggt gacttatagc 300  
 aatgggtgaa acagatgggg gacaccacat catgcccac cgtgagatct tggcctcaac 360  
 gtcgattgag aagatgacgt tgcaaatatt tcagacttgt caagataaga agagacgaag 420  
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<210> 39279  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-H1

<400> 39279

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 gaagatgacc aaggaccttg cccttctcgt tcacggatct tcaaatatca cgaggagcca 180  
 ttacctgaac acggaggagt tcattgacgc tgttgctgac gagctcagat caaggctggc 240  
 ggccaactcg aacctttgaa atccttgccg aagttgtggt gctttcctgc gcgacgcttt 300  
 cgaaccgttt ttattatgtc gccattttct ttccctgtgc caccaccctg aatgaagaag 360  
 gcctgagcta ggcgaacatc tgcaggccgc agcagtatgc caaatcatta tcattaccgt 420  
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<210> 39280  
 <211> 315  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-F4

<400> 39280

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cgagtttcca aactagctgc ggtaatccaa gggatctagt cagattttcg gagaggattt 180  
 gggtttcgaa actagccctc aatcccatgg attctgggag atgattgcag ttaaaaatct 240  
 agctcttaca tgatttatta cctgcatttg gtctttacat gctacagact agagtatatg 300  
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<210> 39281  
 <211> 431  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-F5

<400> 39281

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 gccgcgagca cgtgtccatg cgcgacgggg ccggcggcgg acaccggacc tgcgtcgtcg 180  
 tgcgcggcag ggagcgggag atcgcggttg atctctctc gcgcgcgcag ggccagggcc 240  
 aggggcggga gcgggacagg gccgaggtcg gcatgtcggt ctccgtcgac ggcgatcgcg 300  
 tgctccacgt ccgccgcctg cgctggaagt tccgcggcac cgagaagctg gacctcggcg 360  
 ccggcgaccg cgtactcgtc tcctgggacc ttcacgactg gctctttccc gcgcgcgaag 420  
 cctctccacc c 431

<210> 39282  
 <211> 306  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-F6

<400> 39282

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 ttgcacgctc gaccttgcaa gctcttctgg tgctgatgtt cacactgagt tgaagttaga 180  
 tgtcgctggg ttctctgtca gagctgctct atttctgtag gaactcctta atgtaacca 240  
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tcttaa

306

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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-F7

<400> 39283

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ggaagcaacg catcatatac gagacgtcat gggggagcat cacgttcaac gacgccatcg 120  
tgactatgg cctggacagc atcccgttcg gtggcatggg gcacagcggg ttcggccagt 180  
accacggcaa gtactcgttt gacatgttca gccacaagaa ggccgtgctc aagaggagct 240  
tcctggtcga gttcatgttc cgctaccgc cgtgtgacga gaccaagatc ggaatgctca 300  
agcgcgtgta ccgcttcgac tacgtcttgc tcttcctcgc gtcctcggg ctcaggagat 360  
gaagcagccg gcggagagtg cgtgaacaat cgagccaaca gaatttgcac tcacaccgaa 420  
cacacagttg ctagtgggtca attgtcggtc atactgatcg aagaatatgt a 471

<210> 39284  
<211> 475  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-F8

<400> 39284

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gggaagacac ggatggtgac tggatgctgg tcggcgacgt accgtgggag atgttcgtcg 120  
agtcattgcaa gcgtctgagg atcatgaaga gttctgaagc cataggtctt gcaccaagaa 180  
cgaacgacaa gtgcacgaac aagagctgaa gaagatgcag tgttaaagat gttgccatt 240  
gtatcacaag aatgggtccc ttgcagtgcg ctgccgattt gttcttccta ctagaaatat 300  
aacgcgtttt aattactagt tgcagggaga cctgtcttgc tcaactcgtt catggaccag 360  
aagcaataat atatccgtgt gtagctggat tggcgttatg tcatgtcccc taccgtgact 420  
accagaatct acttgggtgat tttatcccag tgctgctcaa taagtttatg cgatt 475

<210> 39285  
<211> 164  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-F9

<400> 39285

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tatgtacggg cggcgccac tgagaccata atcgtcatta acgt 164

<210> 39286  
<211> 453  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-G10

<400> 39286

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tggcctcggg aagtacgctg tgagggttac tcctgctgat tccgagttta tcgctaccga 180  
cgaggcctgt atcgggtctgc attgttaatc tccttattta gagtagtcta ctctgggtaa 240  
ggaagatgta gtcaataatc ccgtttgcyg ttatcatatc gccgggaagg agaccgctga 300  
ctcacgttcg gattgcgcgt gtaagtcctg agataatcgt atcgggtcgt agggacctcc 360  
ggcgccctaac gtgcggcgcg gcgggatcgg tctcggatcc gggctatccc caccggagtg 420  
ttccctagcc gaccacggta agaaacttaa gtc 453

<210> 39287  
<211> 167  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-G11

<400> 39287

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ttgttaatct ccttatttat actagtctac tccggattac gaagatgtat tcaataatcc 120  
cgattgtggt tgtcatatcg ccgtcaatga gaccgttgac tcacgtt 167

<210> 39288  
<211> 457  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-G12

<400> 39288

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taaagagaag ataaccatct acgcctagca agccgtcccg actacagata agggcagaca 120  
tacgctgtac cgaggtagtt acgggaacta taaggcgcaa atctctatga cctaaggtat 180  
tcgattataa atcgaagaca accactacgt ggcgcctaga cacggcgcaa atctctatga 240  
cgtaaccgga tctcccgcat atcgtaaaca cataaccact acgtgcgcct agacacggag 300  
tagcccggt atcgtcttat actatactca taatcgctca gaagaaaaaa aaagcgtcta 360  
atcaacaagt ggcctcctta aacagaaaga caatcgcca acccatcaga tatacgctga 420  
cttttgctcg aattagtttt taagctccca gtcccg 457

<210> 39289  
<211> 409  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-G2

<400> 39289

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aaatggctga tggtaggagc atccagcctc ttgtctgcga caatggcacc ggaatggctca 180  
aggctggttt tgctggggac gatgcaccaa gggcggtttt ccctagcatt gttggccgtc 240  
ctcgccacac tgggtgtcatg gtagggatgg gacagaagga tgcattatgtt ggcgatgagg 300  
cacagtccac gagaggtatt ctacgctca agtaccgat tgagcacggg attgtgagca 360  
actgggatga catggagaaa atctggcatc atactttcta caacgagct 409

<210> 39290  
 <211> 416  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-011-Q1-K1-G3  
  
 <400> 39290  
  
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 aggagatgct gaacttgcaa cgttccaccg atgtaccaga tcaaggtcta ctgtgtgact 120  
 tacttttggtc agatccacga aaagatgttc aagggtgacg catgaatgat agaggggtct 180  
 gatatacctt tgggtgccac taggcttcag acttcctgca aaagcatgat cttgatctta 240  
 tttgacgcgc tcatcatggt gtcgaggatg cgtatgaatg ctttgctgac agacagcttg 300  
 tcaccatatt ctgggatccc aactattgag gtgaatttga taatgctggc tcaatgatga 360  
 gtgttgacca aactttgatg cgtgccttac acattctgca acctgcttag agaaaa 416

<210> 39291  
 <211> 293  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-011-Q1-K1-G4  
  
 <400> 39291  
  
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 ggagaacctta agatcctgca gaggagagga agaggagcat gaagaggaga tggtcggcac 120  
 cgttggcaag aggccagtag cgctagcaac ggactgatcg gagggtagcc gagcggtcct 180  
 gtatacctct gctgccaacc tgctacgaga catcgaccac cagctgctgc tgcacgtcat 240  
 caatgagccc gactacgagc agaacgaggc cattctatgg gaatccaccg gat 293

<210> 39292  
 <211> 366  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-011-Q1-K1-G5  
  
 <400> 39292



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 cagccagcgc ggccggcatg gaagagacgc cgcgggggca gcgcccgcag ccgccgccgg 180  
 cgcacgcgtc tnnctcgttc gcctcggcgc ccttcacacc gncgncgcgc gtcttctctc 240  
 caggcctcgc cgcgcgcggg ggcacgcca gccccggctc ggggcccggc cacgcgctgc 300  
 cgcacctcag cagccacccc ggcccggccg tcttctctc gccgctgcgc cctgcggccg 360  
 tgccct 366

<210> 39293  
 <211> 391  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-011-Q1-K1-G6  
 <400> 39293

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 gacgtgattg ccgggacgag caccggcgcc ctgctcgcgt cgatgctggc ggcgccggac 120  
 gagaacaacc ggccgctggt cgccgacaag gacctacca cgttctacct cgagaacggc 180  
 ccaaagatct tcccacagaa aaaggctggg ttgctgacgc cgctgaggaa cctgctgggc 240  
 ctggtgcggg gcccgaagta cgacggcgtg ttcctgcacg acaagatcaa gagcctgacg 300  
 cacgacgtca ggggtggcga cacggtgacc aacgtcatcg tgcttgcgtt cgacgtcaag 360  
 tacctgcagc ccatcatctt ctcgacgtac g 391

<210> 39294  
 <211> 469  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-011-Q1-K1-G8  
 <400> 39294

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 tgaccagcgc taggagggcg cgaagtcgag tagacggctg ggcctctccc gttctccacg 120  
 gacggctagc gctactggag gcgacgcctg gacggcgacc ccgcacactc acagccacac 180

cctccacctg tgtgactatt caagggctta ggccgagccg cccggccaat cgccgtccgc 240  
 cggaccgctg aggaatTTTT ctttctcgtc aaaagtact gcattcattt tacagtaatg 300  
 gctatggggt tgattaatgc taatcctata atccatgaga aaaaagagag gcgtgccaga 360  
 caggcaccag agaccacaga tgaaaatgca gcagagccca tagatcagct ggaaatattt 420  
 gatcacatta gagatataaa ggatccagag caccgtact cacttggac 469

<210> 39295  
 <211> 449  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-G9

<400> 39295

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 ggtaatatTT ctaatcatcc tggaatagt acttttacta attcggcggc ggttgcgact 180  
 gtggaggcta cttctgctgg tgggtgtgag catcattgga ctattaatgg atcggattcc 240  
 gaggataagt cgtatTTTgg cgggtttcct gatttttcgg gtccggttag tgattttgat 300  
 taggttgcta cttctaaggc gaaggagact aagaatggtt ggtcggttac gcctcttacg 360  
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<210> 39296  
 <211> 271  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-F3

<400> 39296

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 tgaggcaatt attgaggatg atgctgatgc tgatgctgaa ggggatgccca gttcatcagg 180  
 gtctactatg gacactgaaa gtgcattaga tgttcatgaa gatgcaatcg agttcgaatc 240

agccgacggc catgaatgct atcttgagaa t

271

<210> 39297

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<212> DNA

<213> Zea mays

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<400> 39297

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tgggaaagag gcgaagtaaa ggtagttggg actgcggaag gaatggaagt gatctcagag 120

actgacaaag atgccaatc tggatatgag attgtgggat ttgaaattgt tccatgcagc 180

gtgaagcgtg atcctgaatc catattgaag cttaatatgt atgataaagt cgatcctgtg 240

aactgccctg tggagttgga aaaatctcaa ttggttaggg agaaagagaa gattcacttt 300

acttatgagg ttgaatttgt aacagtgata tcaggtggac attacggtgg gatgcatacc 360

tgaagatgga gggttcgaag attaactggt tttcaataat gaactctttg atggtaattc 420

tatttttgggt 430

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<212> DNA

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<223> Clone ID: LIB3069-011-Q1-K1-D9

<400> 39298

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aaaaaaaaaa aaaaaataaa aaaagacagg cgcctataag gacatgagta tggttaagta 120

atactactac tctttataca ccttgatgca aatctaacca aattgttgat gattatcaat 180

cctctaatacg acaaaatatt cat 203

<210> 39299

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-E1

<400> 39299

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ggacgcagcc cgctgctgga gcaccaaccc catcacaggc taccocagtg cgcgccgagc 120

acgagaaggt gatcctgcaa tttgcgaagg tggcttaaga catgttcacc atggactacc 180

ggtaccactt gggagacttg catgccttcg cgatctgcct gagcagcttc gacaccaagc 240

tggactgcga gagaaccac cagacatggc tcaaagtcaa ggactatctg tctgctagac 300

gaacaccgag ggcccaaatt acgctgagcc acca 334

<210> 39300

<211> 498

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-E10

<400> 39300

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ctgtttcttc tggtactcct tcttctgttg ctggtgctta taccattctt ggtcagctctg 300

ctgttggttg gtcgagttag gtcagttgtc gtcggtatgt ggtgggttgg tttgggtcgg 360

tgcacccga tactaactcg ggcggtcgga ccaggcatcg tgcggcgctg aggtacacat 420

catcacacat acccatacgc ctactctgac tcgtccgtca gtcgtacgcc gaccaccca 480

gtcatcatcc cactaatg 498

<210> 39301

<211> 443

<212> DNA

<213> Zea mays

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 ctccaattag ggggcttctt cggttccacc gtagtagtca gtatccgata cctataacga 180  
 gatactatga aaggcctaac ggacgataga cgccgttacg gtaactaatt tagtagatta 240  
 gacgactgtg gcctacgcgt ggttcactcc cgagtaagct cataattaat cggtttatta 300  
 gtggatatct ttcattacga ttgtagtaga cggtattagt acttgcgaga ctacgtacgc 360  
 aaccaatcta gcctcgcca gtcataagcg accgcagtca tgtaatcgcg ggaagcacgg 420  
 ttcacctcac tccgcacaga gaa 443

<210> 39302  
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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 gttgttgctg ttgttgtcac gttctgttgt agtctaggaa ggctcgtttt atgtttagtc 180  
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 ttcgcctgag acggcggcgg tcttacgccc ggaggaaccg ggcttattac cggcttaggc 300  
 acggtgcccg gtatgggcag cgttacggtt ttatagggtc gcgacgtcgc accaggcttt 360  
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 gcgacgaacg tc 432

<210> 39303  
 <211> 187  
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 <213> Zea mays  
 <223> Clone ID: LIB3069-011-Q1-K1-E2  
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gggtggatag gccttttaac cgtgagcgac ggtgtccgct gtttatgtga ggtgcttggt 120  
 tcgagtttat cgtctgtcaa aacatggact gtatttgact atctgttagc atgtcttttg 180  
 agatctt 187

<210> 39304  
 <211> 67  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-E3

<400> 39304

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<210> 39305  
 <211> 228  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-011-Q1-K1-E4

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 gcgaagcggt acccgctctc aatcgtgtgc ttagtgccgc tttttggaac cctgtttgat 180  
 ttttaatgga gatacactta tttgaaatat aattgatccc cagatata 228

<210> 39306  
 <211> 427  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-E6

<400> 39306

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 caaggcagat acaaagctgc atacacaagt gctaagcagc aatactttat taacattcca 180

gtgaaggtta cattcacaaa tcgagttgca cagaacatgg aactgcattc tgaacgagat 240  
acaaccttac ttcagaatgg tcctacttcg cacggcaatg agccaacctt catgcctttc 300  
ttctgagcga ttgccttcaa ttcctccgac atagcgctct cctcgatgat cacatgattc 360  
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gagatgt 427

<210> 39307  
<211> 262  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-E8

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tgtgcgacat ctaatgccag cacctcatcg ccgccgtcat cgtcagccac gacggcagcg 180  
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aggactttga tgaacctgga ac 262

<210> 39308  
<211> 468  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-E9

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gtgcgagtag tgaagtagcc tatggacggc cggacggagg gtaacgatta gtcgtcgagt 180  
cgtcgtcgtc ttcacgggtt gattactagc ccgcacccgc ttacgttctg agcagttggg 240  
tgctcctccg tttcgggtccg cttagccttg gaaggtggct aagtttggcg aggtgcggat 300  
agagattggg aagctagaga ctggtaacag cgagtcttag taggagttca tccgcattct 360  
ccactcattt gcccgaagge ctttctctct gcgtcgactt ctgctccttc ctgacctact 420

ccgatcgact ttcatcgttt tagaatcgca ttggcgagag tagaagac 468

<210> 39309

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-F1

<400> 39309

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cggtgcagc aacaacatac accgctggcc gtggcgacat gggcatcctg gaccacatgt 180

ctcatgtgtg cagcatcaca gagacgaagg acgcgctcaa gctcaagaag aagcgaccgc 240

tgcaagtcac gcttgactgt aatcattata tatttaattg cctcccatgc atatgcatgc 300

atgcctgatg agtgtagatg catgggcagt ggttgcagac agtgaacat 349

<210> 39310

<211> 482

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 39310

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aagtcgtcta atcgtaggga gtctgagctg tgtgctggta ttgagagaga aagttccaaa 180

aacgtaaaga gggaccccat taagatcgaa gatgatccga aactctcgta gagtgcgggg 240

taaacaaccg gagaggcctc ttgattctcc gacaacgaat gtcccaccgc gaaggtagt 300

agcggctttt gacacgcggc tggccgttga agcaaagcag ataaggagaa gccgatactc 360

ggaatctgcg ccgcatccga tacgatgatt ccgataacaa cgtgtatctc cntatgggag 420

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 tctgagacta agactgagac tatgactcta cctattacgt tacgtcaggt gcacgacttc 240  
 gggactaacg tccgaagtaa gtaccggggg atgtagaacg tcctcacggt cgaacacaca 300  
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 caaggccaag tatgagtgca ccgtaagctg ctggacacag aaatatgcca cgggctgcaa 240  
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 <213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-F2

<400> 39313

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ccaaccccggt gctcaagaag gtgcccgtgc tcatccacca cggcaagccc gtctgcgagt 180  
cccagatcat cgtgcagtac gtcgacgagg ctttccccgc cgtcgacact aatttccttc 240  
catccgaccc ctacgaccgc gccattgctc gcttctgggc cttctacgtc gacgacaagt 300  
tctacagcgc gtggataccc gtgttcaggg gcagga 336

<210> 39314

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-C3

<400> 39314

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gcgcgggcg ccaagcacaac tccaaggagg attgctggct catcatcggc ggcaagggtgt 120  
atgatgtgac gaagtttttg gtagaccacc caggagggtga tgatgttctg ttgtcctcaa 180  
ctggcaagga tgcgactgat gatttcgagg atgtcgggtca cagcaacact gcccgcgcaa 240  
tgatggatga gtacttgggtg ggtgaaatcg acgcgtcgac gatcccttcc aggacgaagt 300  
atgtcccccc gaaacaacct cactacaacc aggacaagac tcccgagttt gtcatacaaga 360  
tcctccagtt tttggttccc ctggcaatcc tgggcttggc tgtagccgtt aggatgta 418

<210> 39315

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-C4

<400> 39315

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taatgaatga gacgaagtta ttggtttacc aaccaagatg taatgatggt gctgtgaaat 180  
caattggctt agattcgact gatgatttcg aagata 216

<210> 39316  
<211> 419  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-011-Q1-K1-C5

<400> 39316

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atgaagatac cttgcttgat tcttctgggtg agactagatc tcgtcacatc caaccacgat 180  
ggaaacaagt cctactagcc gtaatggggc ccgaacaaca ccagcggccg gtggatggga 240  
tcgctgcccg ctctgtctgt cgttgcccga ttggtggagg cccgaacagc acctgcaacc 300  
ggtaggatggg atcacgcac cgtccctcgc cgttgttgcc ccatctgtgg agcacctcgt 360  
ggccgngat gcctgccatg gcgaccaacc agctaccct ctctttccat ggcgagttt 419

<210> 39317  
<211> 463  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-C6

<400> 39317

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ggggaagcac ggcttgagc tcctgagctc ggactccgag cggaggctcg gtagcagctg 180  
tgacgactac gtcagcaggc aggagtcgag aagcctgagc accgggatcg cgtccgtcgg 240  
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acgcattctc agcctcaagg taggtagggg actgaagggt tggctctgca cttgatgacc 360  
cacgagctcc tcgttgccg ctttatctgc ctgcatgcga tggatagaag ttcagcgcag 420  
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<210> 39318  
 <211> 341  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-011-Q1-K1-C7  
  
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 agacggatca aaggagacat ggtatgagac cagaccatgc atgaggtgtc tagacgtaca 240  
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<210> 39319  
 <211> 253  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-011-Q1-K1-C8  
  
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 agaactgcga acgcatggat gccaatgtct aagctcacag acttcgtctc atgcgctaac 180  
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<210> 39320  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-011-Q1-K1-C9  
  
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ctggggggcgc gggcgcccttg gaatggtgcg gcgaggtcgg cggagaattt gatgctgggg 240  
aatgtggtgg tgggtgttggg taagtgtgag gtgtcgtcgt atatgttgct tggggaggcg 300  
gctatgcttc atgttcagtc ggagtgtgag tcggtggtgt ctggtcggga gtgtcatcat 360  
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<210> 39321

<211> 386

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 39321

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gttcctgacc cgtatgatca caaacccata tgcagctggg cttctgagca tctgaaagac 180  
aagaactacg gcaagctcgt ggacgcgctg ctgaaggagc acaaggaaag cgagctggag 240  
gccgtctgcg aggtgatcca agagtgcac gaccctgacc cgacgcggcg gccgtcgatg 300  
agagacgtcg tgggcaagct gcgagacgct ctncgcatct cgcccaggagc ggcngcgccg 360  
cggctgtcgc cgctctggtg ggcgga 386

<210> 39322

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-D10

<400> 39322

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ggacgccgag cattgtcgtc ctgctggtgg ttctgttcgg gttatggatg attatctttc 180

ttataatggt cctagtattc atggtgaggc ttctgagctt aagactactt ctgactggga 240  
 gatgtagagg ctttgtggtc ctggccctgc tattcctctt atggaggagg tgacgtggaa 300  
 tgttactgag ggtacgaatg gtaaggagtc ggatggttgt aatactattg ctaatgaggt 360  
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<210> 39323

<211> 467

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-D11

<400> 39323

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 gtgttggtaa gtgttgtttg ttgcggtggg tgtgggataa taatggctct gtggatgtgt 180  
 cggatcgtag tgattattat tagtagtagt agtagtagga gtggactgct tctgtggtga 240  
 tgttgctgct gcgtctgtcg gttagactgc gtctttcgga ttgctgtgct gagcctgggtg 300  
 ctaagaatag gagtctgcgg tcgttttctt gtggctgtga gggtatgggtg ttggtgttgg 360  
 ttgatttgcg ggagacagag ttgctgctgg aggatcatat gcgtgctact ctttgtgggt 420  
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<210> 39324

<211> 223

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 39324

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 tcgtatggac gaggtgacgt ggaatgttac tgagggtacg aatggtaagg agtcggatng 180  
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<210> 39325  
<211> 190  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-D2

<400> 39325

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aatgtaaact tattgtaaca caaaaaata tacaaataga cttataaaca tatgaaagac 180  
aagaactacg 190

<210> 39326  
<211> 407  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-D3

<400> 39326

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agctcggatga tgatatctac aaatctgaga tatctgatca agaaataaca gcaaggacag 120  
gtgctactct ggaaggtagc ttcgaagagg atatttcacg ggaccaagag gcaaatgatg 180  
atgatgaaga tgagtgccat gtgaaatctg atggcgaatc agaggacact gaggagcaag 240  
atctggagga tcaacagagc atgccagatg atgtctctaa aatagagatt tctgaggaca 300  
ccgtctctgg tgacggatgc aaagaggatt tttctgaaga agtaacctcg gcagctgtgt 360  
tagcagatga tgtgtttgaa caatatgaca aactgtgga tgatgtg 407

<210> 39327  
<211> 363  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-D4

<400> 39327

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ctatggttca tatacaggcc cagtctacag cacaatcaca tgcattcagat ggtggcaaag 180  
 accctgatgc tcatgcaacc tcatatttgg tcaagaacac tcacagcaac atggagcctg 240  
 atgtgcagaa cagtatctcg cagctgcatg acatcactgt ggtaaaggcc aagcaagggt 300  
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<210> 39328  
 <211> 398  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-011-Q1-K1-D5

<400> 39328

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<210> 39329  
 <211> 383  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 39329

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gggtggcgcg ttcaacgcca ccacgacgct ggcggagctg ctgtgcgcca acggcctccc 300  
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<210> 39330  
 <211> 469  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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<210> 39331  
 <211> 375  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-011-Q1-K1-A8  
 <400> 39331

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 gctccaagtg caaaggcaag ggctcgaagt ctggtgcttc aatgaagtgc cctgggtgcc 180  
 aaggctcaag tatgaaagtc accattcgtc aactggggcc ctccatgata cagcagatgc 240  
 agcagccttg caacgagtg aaagagactg gggagagcat caacgagaag gaccgctgcc 300

caaggtgtaa ggggtgagaat gtcgttcacg agaagaaggt tcttgagggt catgttgaga 360  
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<210> 39332  
<211> 416  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-011-Q1-K1-A9  
  
<400> 39332

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cctcatcata ggtccccgta acataacttc aacgcagtag aatgcgacgc aaatttcttt 180  
aaataagtcg ctctcgcacc cgtagacata tagagtagcg aaattaaaga ctggacaccc 240  
gacgagccta atagctcact agccgcacac tagaagttac tccatacgcc catagacagg 300  
gagtactgcg ggttaccgga acatctagag gactccataa gtccgatcgc cggggtagag 360  
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<210> 39333  
<211> 224  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-011-Q1-K1-B1  
  
<400> 39333

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aaaaactatt ctatagcttc acctaaactc cattcaatct ccgtcatctt acaacactcc 120  
ttactcggaa aacccttgcc ttacccaacc taatcaccat tcaacataat cccctttctt 180  
ccacctgcct tataacaaaa aaaccctcac ccaacctcct ttcc 224

<210> 39334  
<211> 452  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-011-Q1-K1-B10

<400> 39334

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gcttcttgct ccttgccgtc gacatactga ggcaccaaag aagtcgttcg accttgggca 180

gtagaggctg ttgttggtcg tagtaacggt tgatcctctt cggctctatgg cgtccggccc 240

ttcaccttct atacctaata taggtacggt gacccactgg cttaatggcg atgttggtct 300

tgctgtccct gctgcggcac tccactctga ttcggcggtt tcgcctgttc gtccgtgtca 360

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gagttctatg atttctcca tcactacgcc ta 452

<210> 39335

<211> 467

<212> DNA

<213> Zea mays

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<400> 39335

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gtccgacaaa atagggatgt ccatagaagg aaaattagca gcgatcctca ccgtcctctc 180

ggtacacgag gagatagagg ctctctgctc cgctcgctga gcggagaaaa tagtaccgta 240

tttaaccgta aacgtcacia cgaataaggt cgaatcatct aagccggaca ccttgactat 300

aagcggctag tccatactgt tcggaccggy ccgcccggtc gaagcagacg ggagcccagc 360

cgtagcgggt atcccggacc gggcgtagca ctgcccga atcaaagtac tgttaatcga 420

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<210> 39336

<211> 466

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-B12

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agcccgtaa ggagtacggc tcggcccca cggagggtact cgtcaaaatc gtataaaatg 180  
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ccgacgcact aaacgagctt aatgggacta aagccgggtca cgtcgccttt aatctactcg 300  
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gctacataac cgtaagggcc tctttttag cactccgacg cccgttcaca gtcgggtttg 420  
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<210> 39337  
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<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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cctggacagg caggcgtctt cgttccaggt caccgtcagc gacggccgca ccgtcaccag 240  
caacggcgcc gtccccgctg gctggcagtt cagccagacc ttcgagggcg gccagttctg 300  
aggatgaaca gctagcgcgc gcgaggctag ctattggata attaattacg gtactgtcga 360  
tttggttttt ttgccttggt tnttttttgc gcgacga 397

<210> 39338  
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<213> Zea mays  
<223> Clone ID: LIB3069-011-Q1-K1-B3  
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gaccggcact caaagtgtca tggcgccact ctctcacgct gctcgttgat gcttgcttcc 120

gctgcaatcc ggctgccgat gccgcttata cagtgtctcag tctctctata gatcgagct 180  
 cgctgcactg caaacagctg taacagcagc cgcttgacgc caaccgaaca cgccctttca 240  
 tacttattca atatcacaag tctgtcctga gatct 275

<210> 39339  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-B4

<400> 39339

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 tttttcccca tattatctta catctgttat taatttgatt ccttagtatt ttgtctcact 180  
 tatgaagatt ttaaaacaat aatataagtc cttttacctc ttgtagtctc actatttcaa 240  
 gtttctgctt taaaatacct gataggtacc cttttgcgaa gacaatgcct ctgatgtgtg 300  
 ctggattc 308

<210> 39340  
 <211> 63  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-B5

<400> 39340

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<210> 39341  
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 <212> DNA  
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<223> Clone ID: LIB3069-011-Q1-K1-B6

<400> 39341

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cggccactca gcactcacgc tgctcgctcg ctogctcgta cacgcgcacg cttcgcgcac 120  
ggaaggaacc gtggtggagg gagcggacag acatgatgca cgcccagccg aatctgacgt 180  
gacaggcttg gcggcaacat cgccgccacg gcagctaaac cgggccggag atccggccac 240  
cgccgctact aacttgacaga gcccgctcgc ggagtcgcac gacggcggct acaagtcctc 300  
gtcaatgcag ccaacgccgg tctacaacag ccccaacgag tcgccgctgc accccttata 360  
cggcc 365

<210> 39342  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-011-Q1-K1-B7  
<400> 39342

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ggatcattct gctctcaggc ggagctcttg gtcgctggta cacgcgtgcg atcggcgcac 120  
gtaatgatcc cagctggggc cagcacacgc gacatgatgc agcgagatgc tgagagggtga 180  
cgtgactagc tgtggcgcgc gcctcgggta ccgcgatggg cagaagcgga gtcggcgtca 240  
ccggcaatgc tcggatacta gtgcgcatag ctcaacagc 279

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<211> 431  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-011-Q1-K1-B8  
<400> 39343

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ctaagtcacc gaaacgcacg gagacaaata gctaaagagg aggagaaggg tgtatactta 180  
aattttctta actttctcat aaatgatagc atctatcttc ttgacgagag tttgaacaaa 240  
attcttgaac tgaaagaaat agaggctgaa atggctaaca tagttgagtg ggagcgcaga 300  
cctgctcaag aaagagagga gcggctgcgt gtatttcatc agtgggaaaa tattgttcgt 360

tttgacatga ggctagccaa tgaggatgtt gggatgcttg cattcacctc tgaacaaaat 420  
ccagcacctt t 431

<210> 39344  
<211> 442  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-B9

<400> 39344

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ctatcgggtct ttacatataa ccccccgaga agccaatac ctgatacaac accgtcgagt 120  
cctcggagca cccacgggac gccttcagct attgaaatgt acggagataa acagtcaaag 180  
aggaggagaa gggcgacat ccaaaccct ccaatccctc taaaacgac agtactcact 240  
cctccgatga gagccgaat aaaacctccg aatcgaaaga aacagaggtc gaaacgggtca 300  
atacagccga gcgggagtgt agattcgtct aaaaagaga ggagtgggtc tgcgaccct 360  
actagcggga aaacaccgcc tgccccgata cgaggtcagt taacaggagc gccgggacgt 420  
ccgtacctat tctgaataa ac 442

<210> 39345  
<211> 166  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-C1

<400> 39345

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gggtccagtg ggctgacga gtccttaaaa aaatttggtc acttgc 166

<210> 39346  
<211> 442  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-C10

<400> 39346

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gcgagtacgc tcaacgcggt agcgctacct atatatacat ccaacagcgt agaattcgta 180

cctatcgccc cgggtgctaaa gccttcttcc ggggagatgc ccttagcctt agctcactca 240

cctctcctcc ataactaccg gcggtcgcg ctcagtcgtc gctatagagt cgaatcccta 300

cacggccgga cccacgggcg tcacgatgct taattccgta cctgcccctt gtaatactcc 360

tctgaagagg ggtacgaacg ggaagcttgc tagcggtagc aaccatcacg tccgttcgct 420

aacaacgctg acggctacat cg 442

<210> 39347

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-A7

<400> 39347

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tccactcact taaagtgtct ctggaagatc ttacaatgg aatctcaaag aagctctctc 120

tttcgcgcaa tgtcatctgc tccaagtgca agggcaaggg ctogaagtct ggtgcttcaa 180

tgaggtgccc tgggtgccag ggctcaggta tgaaagtcac cattcgtcag ctggggcctt 240

ccatgatata gcagatgcag cagccttgca acgagtgcaa ggggactggg gagagcatca 300

acgagaagga ccgctgcccc ggggtgtaagg gtgagaaggt cgttcaggag aagaaggttc 360

ttgaggttca tggtgagaag ggaatgcaac acagccagaa gatcaccttc cctggtgaag 420

ctgatgaaac gcctgatacc gttactggag aca 453

<210> 39348

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-C11

<400> 39348



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 cccgacacag cactgaagga tataaataga taaagaaatt atatagaata aaatcgtaa 180  
 gacaacgaca ttatataaga gaaaaaatag tgaggctggg ctcgaaattg tacgtactta 240  
 cacatacatt aggatttacg ccggtctcca caccacagaa ccaataaat cca 293

<210> 39349  
 <211> 448  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-H10

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 tattctatga aaacctgcgt actgaactag gactctagat actagctctc attactacat 180  
 tataccgctc aatatgcatg gcctaataac agttaaacaa tcatgcaaac atcatactaa 240  
 ctcacattct acatgatcca aacttacgaa ctcatcatt ctaaacata attttaatat 300  
 actgccactt tagatgaacc cactttacgt actcatacat cctacttact agcaaatccc 360  
 tggcgtcacc caacttaaatt gcactgcacg acatactact atctccagac tgcgaaatat 420  
 ctaacattac ccaacttatt gcccttgc 448

<210> 39350  
 <211> 440  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-H11

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 cttatcgtct cctgcgcctc acagtcgccc tacgcgtcga atgctcctcc gctcagcgcc 180  
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tgcacagccg ccgacaacag tcgccgcgtc tgggcctcat gcctctgccg tagcaccaac 300  
 aaaagcatct ttactcctt aagcctctgc tgctccgtca actacagctg cctctccgca 360  
 tctggctacc acttttgccc cagctttctt accgtcacta gctgctgctg cgccacctgc 420  
 cttcgctacc ccttcaacca 440

<210> 39351  
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 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 39351

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 tactcctgct cctcgccgat cgatacgatg gccgtcttct ccgacctcca caccgtcgac 120  
 tgctcaagt cctcgaggc tcacctcgcc ggcaaaacct atgtgtctgg tgactgcatt 180  
 actaangatg acattaacgt cttcgacctg gtgccgtoga agcctggcgc tgagtttgct 240  
 aatgccgtcc gctgttacga gaccgtctct gcggctgtag cctcaagatt cctgctaag 300  
 gctgttggtg taaatctgcc tgctggatca gctcctgctg cagctgctcc tcgggatgat 360  
 gctgacgatg atgatgacct tgatc 385

<210> 39352  
 <211> 367  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-010-Q1-K1-H2  
  
 <400> 39352

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 taaaagcaca tgcgatggac cactcaacg cgctcatca ctggctgccc tatctaattg 180  
 attcaatcca tctttaaacc ccaaacacc attccatct cgctcaggct aaggttccca 240  
 aagagcagct gccgtagctg cactatcctc tgtgtgact gctgagcatt ctggatcttc 300

agaaaatcta cgagccaaag ctagcagcac aggatataag actgatgtcg aatggcctgt 360  
cataact 367

<210> 39353  
<211> 343  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-010-Q1-K1-H3  
  
<400> 39353

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ctccggctaa agatgttctt acagatctcg ttgaaatgtg ccgtgggatt caacatcctg 120  
tgcggtggcct ttttttgata agtcaccttt ctcaaataag cagagacaaa ttgtctgata 180  
ttgggtctga gtacgaaggc gatgtggaaa atattaacga tgcggctgaa tttgttcttc 240  
agaatttcat agaaatgaac aaactctggg tccggatgca gcatcagggg cctgcccagag 300  
aaaaggaaaa gcgtgtgaag gaaagaaatg aactgcgtga tct 343

<210> 39354  
<211> 392  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-010-Q1-K1-H4  
  
<400> 39354

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cctggtggtc tgggtacata caaaaagttt gaggcagaaa tatacgtcct gacaaatgat 120  
gaaggtggcc gtcacactgc ctttgtcaca aattacacac cccaattcta cttcaggact 180  
gctgatgtca ctggaaagggt tgagttgctt ggtgagacga agatgggtttt gcccggtaac 240  
aatgtaaccg cgaatttcga gttgatatcg cctgttcctc ttgaaactgg gcaaagattt 300  
tgctatgagt gaaggatgga agacagttgg tgccgggggt gtctccaaag ttattagctg 360  
atgaatttcc actttcttgc ccgtaacaat tt 392

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<211> 320  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-H5

<400> 39355

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tcccgcacct tcttcgcgcc cgttcggggc tccgcacccg gcctctcccc cgtccccaac 180

cccattccgc agcaggcgac cagcacaact tctctaatec tccgtctcgc attctgctct 240

cctgcgctcc tactccgcgt cccgccaccc ttcgtacgca caagtttact atgtctggga 300

tggcatctga tgattcacct 320

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<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-H6

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ttgtgaggac gaggcaacca tgaatgccga gcagggttg gtgatctcaa cagcgtttcc 180

cgaggttgtt gcatcaagca tctcagctgt ccccgcgatg gagtgtgata aggctgcagt 240

gaaggccatg aagaaaatgg agaaggaaca aatgaaggcc atgaagaagt atggagaagg 300

aacagaagaa ggctgctaata aaggccatga agatggagaa ggaagcaaag aagatggcaa 360

tggctacact gaatggc 377

<210> 39357

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-H7

<400> 39357

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ggatctagag ttcagtttct gagattgggc aacggcagcg gctcagctcg tcaagtttgt 120  
 gctgggatgc cagtttatcc cttctagtct attacagaaa tgttggtcgg atctgagtct 180  
 attataaaca tcttggtctg agtttattgt tgagtgggtgc cagttttttt caatatacat 240  
 ttatcttaaa aacagcggta ctgatgtttt tttgtctaaa gttaatgagt ttgcaatggg 300  
 tctgagtcta aaaaaaaaaa ttaaataa 328

<210> 39358

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-H8

<400> 39358

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 gcctgccgac cgttgctctt cgcaactaaa cccttggcag cttccgcccc ttaccttgcc 180  
 ttctaccgc ttgctttccg aataaaaacc gcccaaccct ggccaccgaa accttgctccg 240  
 gcctaaccctc ttcccgggtt t 261

<210> 39359

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-A1

<400> 39359

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 caagtacttc tttgatagaa atgtcacaat taactatccg tttgagaagg gtcctctgag 180  
 cccccgcttc cgtggtgagc atgctctcag acgttatgaa tctggggaag agcgtgcat 240  
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 acgtgaagat ggcagtcgcc gaaccacaag atatgatatt gacatgacca aatgcattta 360  
 ctgtgggttc tgtcaagagg cttgccagc cgatgctatt tgtgaggggc ctaactttg 419

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 <211> 383  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-011-Q1-K1-A11  
  
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 tatcaaaatc aacaacatac gccaatatct aataagaata agtacaatc agacattaac 180  
 gacggtatcc tacgtaaata ttgaaactct caagaagctt taaacttcaa actcccatcg 240  
 ctagctcgat gtcgtcacag atcacagttt cgagttcata ctgccatcta ttcgcactaa 300  
 taattctagc tacatggact ttgcctcact catataccga tagaccgaac cctgtacctt 360  
 accactaccc gtcttcaaag caa 383

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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-011-Q1-K1-A12  
  
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 cgaagtcttc agctagggca gctttaagaa gaaaaggtag aagcccgaca gcggcgacgg 180  
 tatcctacgt aagtgccgca gccgaagaa gcttaaactg tcgaaatccc atcgcgagcg 240  
 ccccgctgct ggagctcacc gcctcgagtt ccgcctgcgc actggtcgca cgaataatta 300  
 gagctacatg gaaatcgctt cactcatgtg gtaatagacc gaactctgta acttaccagt 360  
 acccgctctt aaagcaacct acatactcga gttcggctcg gaatcaaggg atcctcttaa 420  
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<210> 39362  
 <211> 274  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-A2

<400> 39362

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ttatacctat gattgatgca ggaagtgtc ttatgaggaa caagacctgg ctgtctctgc 180

tggatctttc tctgtaattg atgatgctgg acaccgtgga aagcgaatga gaaaatcatt 240

ctctgatcaa gaagcatatt cagaagagtc aaac 274

<210> 39363

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-A3

<400> 39363

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agtacaacac ttatgagcaa tctggatttg ccatagtcaa cttctcttat acctatgatt 120

gatgcaggaa gtggtcttat gatgaacaag acctgtctgt ctctgctgga tctttctttg 180

taattgatga tgctggacac cgtggaaagc gaatgagaaa atcattctct gatcaacaag 240

catattcata agagtcaaac ggtcagaaca actctttaca gggcagtacg caagctattg 300

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<210> 39364

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-011-Q1-K1-A4

<400> 39364

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tgctgaagat gttttacaat ctcttttgct tgttgactca aattccaagg agacaaagag 120

caagacaaag gagtggaatg acagaatcaa gcaagacaaa aaaccagagc aactacgatc 180  
agctgccaga cagaggcatg aggatatggg aagaaatgct cggtttgcac aaatatggaa 240  
gagtcgaaaa ggagaaaagg ctgnatgctg tgactcattg agagaaatat gccatctnta 300  
tgatgctgtc caagtagatc ccgatgatga gaagcatcca gcagaaccac ggattacatc 360  
gtttgaagag ggtgctgtct atgcaacttt cttccactta taagggaat 409

<210> 39365  
<211> 219  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-H1

<400> 39365

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agagagcatt cacttcagat tacctggaac tactgccatg tattctgctg gtaaactcga 180  
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<210> 39366  
<211> 167  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-011-Q1-K1-A6

<400> 39366

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ggtggggaac ttccgtgctt attgcgcgtt ccttacaatt ttccacc 167

<210> 39367  
<211> 434  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-057-Q1-K1-H6



<400> 39367

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catcaatgac gagctgttcc ggcttcttca acacgcggac ctggatggcg cgggtggctct 120  
ggtgttcgcg aataagcatg acctgaagga cgccatggca cccgcggaga tcaccgatgc 180  
cctctcgctc cacagcataa aggaccacga ctggcacatc caggcctcgt gtgccatcac 240  
cggcgatggc ctctacgacg gcctgggctg gatcgcgag aaagtcgccg gcaaggcgac 300  
cgcgagctga cgtgcangag agcagtgggt gtgtgttcat gaacggattg gatttgttga 360  
aaggtatggg tgggtggcagg gcggtttgt ttcttcctcg gcgtcacgcc caatgcttat 420  
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<210> 39368

<211> 186

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-057-Q1-K1-H7

<400> 39368

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gaagaaggta gaggtaactc aataaatcta ctgctgtccg gggaattaat tcaaagctta 120  
tttctgcac cttggctttc tttaaaaata gcttcatctt gtgtatcccc atctgggtac 180  
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<210> 39369

<211> 333

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-057-Q1-K1-H9

<400> 39369

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gcacgaagca aacggctcnc aaatcgactg gcggcaaggc gccccgcaag cagctggcca 120  
ccaatgcggc gcgcaagtcg gcgccggcaa ccggtggcgt gaagaagcct caccgctttc 180

gccccggcac cgctcgctc cgggagattc gcaagtacca gaagagcacg gagctgctca 240  
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 tccgctttca gtcctccgct gtcgccgcgc ttc 333

<210> 39370  
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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 accaaggcgg cgaggaagtc ggcgccgacg accggcggcg tgaagaagcc ccacaggtac 180  
 aggcccgga ccgtggcgct ggcgcgagatc cgcaagtacc agaagagcac ggagctgctc 240  
 atccggaagt tgcccttcca ggcctggtc cgtgagatcg ctcaggactt caagacggat 300  
 ctgcggttcc agagccacgc cgtcctggcc ctccaggaag ccgccgaggc ctacctcgtc 360  
 ggtctgttcg aggacac 377

<210> 39371  
 <211> 362  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-001-Q1-K1-B12  
 <400> 39371

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 caccgtacag acatggacta catcaagcac gcgctgacta tattcaccga ctttgtttagc 120  
 agctcttgga ctgatgcttg ccattatgat gaagaacgca caggagaaat cccaagacga 180  
 gaagaggaag acgcggtagc tgctgaatga ataggatgac atatggtgcc agggccacta 240  
 cttcatagta ccatgtactc ctatcctatt gtactcataa taataatacg acgaaagatg 300  
 actggtggga aatgaatatt gggctctgct aaaaaaaaaa atgggttaat tccaatcaaa 360  
 ag 362

<210> 39372  
 <211> 289  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-001-Q1-K1-B8  
  
 <400> 39372  
  
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 gctgatatgg catatgctgc tgttggtgtg tgttgatatct gaggaatcaa tcagtctgta 120  
 tcgagtctct tggcaagttt tctcttggtt ggggcacccct ggtatagtag ggaagaacaa 180  
 tcgtgtgacc acatgatgcg cgatggtaaa ctgacaatgt ttggaaatgt aattggtgat 240  
 gttttttttt ggaaaaaaaa aaaaaacata aaaataaaat aaaaacaaa 289

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 <211> 224  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-001-Q1-K1-C2  
  
 <400> 39373  
  
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 ctgtactcgc ttcgttctct ctgcatgctt ctataatcgt gttcaataat aagtgagagc 180  
 ggtgtgatgt gtggatcccc ttgtcaggct aaaagacaat gatt 224

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 <211> 365  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-001-Q1-K1-D5  
  
 <400> 39374  
  
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 gtagagtaac ttcaggcgtt tctatcaagt gacagcctga ttagcagggc cgttactgat 120  
 cggagggcac tggagggcac cccgagaacc ccatctccta cagcagtgtt aaaaccctc 180

cttcagaggc actggatagg gcgtggcccc tgacagccag gggccactcc actggctttt 240  
 ggtgcccact gacccctttc agcagagact caaaggcctt cagaggcacc aaggacgcat 300  
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 atctc 365

<210> 39375  
 <211> 329  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-E7

<400> 39375

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 cttatcgtag tcccgggtac caggaatggc tccggttgcc agcctgagaa cctcattgcc 180  
 agttaagcat cgatgggcca acgctagacc gccatccatt atgtcggaca cattatgtctg 240  
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<210> 39376  
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 <213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-B11

<400> 39376

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 ccatattgaa ctcttcaggt agcttttata gctatctagt ctaggagtcc agatttgtga 180  
 ttttgcgat ttaggtgttc agttcttttg tacattgggt gagctagttg tgtgtagctg 240  
 attctattgc agcaccaccg gtgagctcta gtgacctatt tgttgacctc tgctggaagt 300  
 tgcacttttt gtgctagcaa ctgtgtcgtg actcgtgagt gctattgctc tgctgaagggt 360  
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<210> 39377  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-002-Q1-K1-G4  
  
 <400> 39377  
  
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 cagcagcagc agcagctgca cctccattcc acgggttccg tcgtgcgctt cgtctgcacc 120  
 cacaaaggcg acggcgacgg cagggggagg agatgaagct gaagcagctg gagggcctct 180  
 tgggtggcct gaccagttc tccgaccca aggtactgct gactgcgcca ccggcaccgg 240  
 cccacctct tgggtggcct ttctttcttc ctttctcgta ccctgctcga tttcggctgg 300  
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<210> 39378  
 <211> 322  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-002-Q1-K1-H8  
  
 <400> 39378  
  
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 atattcacat gctctcagat tccacaggct gcaacagaag gtgtacccaa ggctacttct 120  
 cgttgctggt agccacaaaa ggcttactcc tgtatgtgtc ttaagtggaa agggaaatgc 180  
 tggcactgct gatgatcctt tgatggaatc tttgaagaaa gctatggctg atgcaaaaaa 240  
 gccaggtcc atacaagact tgctgaagga gcaagtggct aaactcagag aacaagcatt 300  
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<210> 39379  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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<400> 39379

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gctgagatca ccaacagtgc cttcgagcca tcttccatga tggccaagtg cgacccacgc 180

catggcaagt acatggcctg ctgcctcatg taccgtgggtg atgtgggtccc caaggatgtg 240

aatgctgctg tggccaccat caagaccaa cgcaccatcc agttcgtgga ttggtgcccc 300

actggcttca agtgccgcat caactaccag cctnctagcg ttgtgcctgg tggcgacctg 360

gccaaagggc aactgtgccg tgtgcatgga tctccaactt caccagtgtt ggtgaggtgt 420

tctcccgcac cga 433

<210> 39380

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-C10

<400> 39380

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ggaacttggt caatatgctt caactttacg tgaaagtggg ggacccttat ctccaagtag 120

aatcctttct aatctgagga atattggatg tgccttgggt ggtggaactc aggaagatgc 180

ccatgagttt ctaaggcatc ttgtgatgtc tatgcaagca gcttgcttgg atgggctgga 240

tggtgagaag cacgttgaac caagtttgca ggaaacaaca ctgatacaac agatgcttgg 300

tggccgtctt aaatccaacg ttaagtgcct catatgctat cagagctctg aaagatatga 360

gaatataatg gatcttacta tggagattca tggctgggta gagtccttgc aagatgcttt 420

gacacagttc actgctcctg aagatttaga tggcgataat a 461

<210> 39381

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-C2

<400> 39381

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 caacctttctc atccgtaccc atggccactg ccgaggtcca taccctgacc gtcgtggcga 180  
 ccgacgaagc gccagttgtg gagaccccat ctacgaccga tcgtccagcc cgacgaggct 240  
 gccccgctg tcgaggccaa tgtagacgaa ccagctgccc c 281

<210> 39382  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-E4

<400> 39382

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 agacctagtt caattatcta aaggttgtcc aaatccatat caagatccac tacctcatcc 120  
 aaaaccataa cctgcacatg cgccctattc acaccctaaa cctataccat aaccacatcc 180  
 aaatccttaa cctcaa 196

<210> 39383  
 <211> 410  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-F7

<400> 39383

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 cctctgggca gactgaggac agcatcccat cagctgcggt ccgtagggat cagcacagtg 180  
 atctcgcgca cagagtctct gcagtgttta accaagcctg gaatgacgac caggacaccg 240  
 gtcattctctt ggggtctctg tacgaggctt tctgagaagc catctactcc tttgtccaac 300  
 caccatagat atgcttgctt gtgtagagag agacagacag acagagagat acagagagag 360  
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<210> 39384

<211> 287  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-003-Q1-K1-G2  
  
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 tttctccttt cattcttata tcaaccctct gctatccctc atcataaaca cattctactc 180  
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 cataccctct agcacaacaa acaccttcaa acctaatacc cataaat 287

<210> 39385  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-004-Q1-K1-A3  
  
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 acagtccggg caaagtgcaa ctattgcttc aagcaacttt ctgctgcaag taataatggg 180  
 aaaaaacatc ttcattgttc tttaaaaagt tgtgtgcaaa ggaagattaa gttgaacggg 240  
 aagacattgg cacatgcttc tttgagattt ggtagaacgg atgggtggaac agtttcaata 300  
 gagaattaca catttgatca agaaatagct agaaatgaac ttgctgcat gatagttctg 360  
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 caaccacttt tcaagatcgg aaccagaaac attgatag 458

<210> 39386  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-004-Q1-K1-B10  
  
 <400> 39386



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gaaccccaaa ccaaattgac cgccgaaaaa agttttgtgg ccaaaaactt agccacaaac 120  
acattaaaca tgcgggaaaa atgctttccc aaaccctacg acgaacttac ataaataagg 180  
ggatctacca caaacggccc ggcctttgtc taaagcgaca catggtttta cccctccct 239

<210> 39387

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-B9

<400> 39387

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ggaaaatcac caacagtcac atcgctgcac ttattggtaa cagattcaag gcttcgcttc 180  
gagatagctt agtgcttccg aattgtgaaa gcatctccat gccgtggatg ttggctgaaa 240  
aggatgattg ggtacctcgc aaggatgctc cttttatttg gctaaatcat gagcccactg 300  
agatgagaat ccatgccaca gctacagcat caactcagtc cgaggaaggt ggcttgaagg 360  
atggtggggag tgaggaatca tgcagagtag tggcatccat tgacgaggca aaacatgagc 420  
ccaagcag 428

<210> 39388

<211> 157

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-G8

<400> 39388

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<210> 39389

<211> 302

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-005-Q1-K1-A11

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tcgtcgacgg ggccttcgtc ggcgcccacg ccggcgaggg caagagccac cacgtcttca 180

ccttcggcac gatccgggac tgccggttcc tgtgcctggt ccggttcaag ctgtggtgga 240

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cg 302

<210> 39390

<211> 456

<212> DNA

<213> Zea mays

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gatagagaac ataccccagc tgttaactgt ctgtgaagta cattgtgcag cagaagcaaa 180

agtaaatgga atgttggtt tttatggaat tctccaagta gaaggaacag cagatgaggt 240

gaccataaag aagcattatg cgaagcttgt cctctcactt caccctgatt aaaacagtta 300

tgctggtgca gaatctgctt tcaagtttgg tgcagaagca tactcaacat tgtctgatcg 360

aaccaaacga tatgcatatg atgtcaaatg gagggctgct tccaaagttg caccaaaacc 420

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<223> Clone ID: LIB3069-005-Q1-K1-A7

<400> 39391

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acgaggagat gcttcgcgac gccttcgggt actacggcac catcgtctcc gtcaaggatga 180  
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ctgctgagca agcaattgcg ggcatggacg gcaagaaatt aggcaaccgt attgttcgag 300  
taaataaggt gcgtacaaga ggccccggc gatttggggc gagatgggtt cagacgagat 360  
ccaagaaggt atggtagaga tccatactgg gacagaaggg acagggaacg gagctatgat 420  
cgtgaaagag atccctacca tg 442

<210> 39392  
<211> 399  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-005-Q1-K1-B1  
<400> 39392

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agagtacaac acgattgaac cttatgcgaa aatgaacgag aactgtccgt ccttgcccc 180  
aacgtacaaa cgacccgcac gctgctgact acgagattgt ctactatgta tctttctgca 240  
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<210> 39393  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-005-Q1-K1-B9  
<400> 39393

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<210> 39394  
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<213> Zea mays  
<223> Clone ID: LIB3069-005-Q1-K1-D1  
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ttcccatgtt tgctatagac tggctgacac gtaataaagt ttcattccaa attgtgatcc 300  
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caca 364

<210> 39395  
<211> 402  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-005-Q1-K1-F6  
<400> 39395

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ctcatgaccg cgagcatggc gtataccagt ttacactct gtagagggtg taccctttac 180  
ccacaagtca tattactcat ctgccacggg gttgtacgga tctcatacac ctctaccaag 240  
gaagcgaggc agggtaacac tacgaggcct ttacaaagtt ctactagctt cagaaaactc 300  
gttacaattt ctaggaagag caatgcatga atctcccgtt tgatcgctat cgcagcaaaa 360  
tcaacacgag aaccttcta cagctcact cccctactgc tc 402

<210> 39396  
 <211> 358  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-006-Q1-K1-F5  
  
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 agaatcaggg ggtggtggtg ggcacatgcg cgaggagctg gcgtccgagg acgacgaatc 180  
 cccaccaagg aagcaaccga ctgttcagca tcgtagaaaag gctgtcgtgt ttgatgacag 240  
 cgactaggac tagtgtgtgt atgacctgac ctttacagtt tattttttcc atttcttgtc 300  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-008-Q1-K1-B6  
  
 <400> 39397  
  
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 tcattcctca ctttatatcc cattttttct taaatcatat aatttactat ttttataacc 120  
 ccaaatttat cccaaa 136

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 <223> Clone ID: LIB3069-008-Q1-K1-H10  
  
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 aagaaacggg ta 72

<210> 39399  
<211> 340  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-A8

<400> 39399

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agccaccgtt gccgtcacga ttatthttcag ggaaaaagaaa ccaactthttg ccggaagaga 180  
ccaaccaacc atggcggtctc gagttcaaag agcctthtaac atgtctctcg agctgctthtt 240  
ggatgaacgcg ccgacctctt tgaggttgag cacctthtacc acgcgcctct tgcgcagcaa 300  
tgcgthttcg caggacctga ctccgagccc caagggcttht 340

<210> 39400  
<211> 292  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-B6

<400> 39400

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gttaatthttt acaattgaac tgataacata tacatctctt atcatcacct atthtcatact 120  
ctthtcaaaca ctaaatacatg acatthttctat tathactthtc atthcatccac atatctthttt 180  
cacattcttg atcatacata aacaccataa thtcacaatc catactthatt tcttcacaca 240  
tcttatatca tathcatctt accaaacaat atththtaaaa atcatthtata ct 292

<210> 39401  
<211> 403  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-D10

<400> 39401

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tgcagcgcga cgacagccag caatggccgc cgcccagtga ggcaggggtcg cagtgcggc 180  
acgagacgca caccacggg cgctggcggc atgccggggc acgcctacga cctcctgtgc 240  
gccgaggacg acgccgccg cagcgccctg ctgtgcacca ccgacgacga cgacgggtgc 300  
tgctccgctg tcgaggagga ctcgggcgcg gcggcgccct ccctcgccga gctcatcggc 360  
ggcgaagccc agtactcgcc caagccggac taccgccaca ggc 403

<210> 39402  
<211> 298  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-F1

<400> 39402

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gctttttgat gcttctcttg gcagctggac ttaatgtttt gctattcttg tcgacatcac 180  
gagttgaatt gtcaaactag tctcttatgt tctatgctga tatgccttaa ccagaaaaaa 240  
aaataaacac aagtaataaa agaagcatga ataatactat tctcttaaag gttataaa 298

<210> 39403  
<211> 473  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-F6

<400> 39403

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cctcgaggtg gagtcgtctg acaccattga caacgttaag gccaaagatcc aggacaagga 180  
gggcatcccc ccagaccagc agcggctcat cttcgctggc aaacagcttg aggacgggcg 240  
cacgcttgct gactacaaca tccagaagga gagcaccctc caccttgtgc tccgcctcag 300  
gggaggcatg cagatctttg tgaaaaccct gaccggcaag actatcacc tcgagggtgga 360  
gtcctctgac accattgaca acgtcaaggc caagatccag gacaaggagg gcatcccttc 420

agaccagcaa cggctcatct ttgctgggaa gcagcttgag gacgggcgca cgc 473

<210> 39404  
<211> 277  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-G3

<400> 39404

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ccttcgggggt ccttttcaac cggcgccgcc gactctcgtg ttccctccccg cgtcctcgtt 120  
ctccttgctg ctggaccgcg tcgtggggat cgacctgatt tctcctgtgc tggcttccaa 180  
ggtagaaaacg aagtcttttg ttacatcatg gccttaccaa ctgcagcgcc tattttgctt 240  
gaccagaacc aacagctcaa tataggcaac agggcca 277

<210> 39405  
<211> 429  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-G9

<400> 39405

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ctccttgctg ctggaccgcg tagtggggat cgacctgatt tctcctgtgc tggctttcaa 180  
ggtagaaaag aagtctttcg ttccatcatg gccttaccaa ctccagcgcc tattttgggt 240  
gacgagaacc aacagataaa tagaggtaag agggccaatg gaccaagggc caaagggctg 300  
aagccatgcg agaatcctgg caatcaaggg aggagagctc ttaaagattt gtccaacttc 360  
tctaaaggca ctggtttgaa ggacactttc accctgaaag agaagtccca gcagaaaact 420  
cgtaataat 429

<210> 39406  
<211> 350  
<212> DNA  
<213> Zea mays



<223> Clone ID: LIB3069-009-Q1-K1-H6

<400> 39406

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gggcggcatc tacatcgctc cgaggttctt ctacttcaag ggatacgcca ccggcggttcc 120  
ggacaaccgt ctcaagattg ggcggtcat ctacttggcg ttgcttgggc tgatcattcg 180  
cacagcatct ttoggcatac acctgctcat catggagatg ctctaaactc tgggtttata 240  
tgtgagctcc acgctggggt aaccgcacaa gttactcatg gtctgagcat cataactttg 300  
tgacactggt cttttgggat tctatagtgg agttctogtt tctttctttg 350

<210> 39407

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-E3

<400> 39407

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gcgtaatcta ctgcgaggac ggtgaacgat gtcaaccgcg acgagatcgt caaggcctac 120  
tacgccacc tcaagcgctc cggcaagatg gagtccctg agtgggttga cattgtgaat 180  
actgcgaggt tcaaggagct tctctcttat gatcccaact ggagccaatg tgacgaaggc 240  
tgctgccaa gaaagatgat ctatctggct ggtgacgaaa gctgctg 287

<210> 39408

<211> 373

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-010-Q1-K1-F4

<400> 39408

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natgtttgat gttatcgaga agggagagaa acagtccaac atcactattg gcattatggt 120  
ctccgatgtc atcgtgttcg ttaccgttct cttcaagctc ctgtttggtg gcaagaaacc 180

agtggcacct gtgaaacctg cagctgatgc gaagaagccc aaggccgtgg agactgacgg 240  
 tgctggaagc agtgggtgaca aggatgagaa agaggatgaa aaggaggaga caggcccacg 300  
 tttgaggacc cgaaaggaga catagacctg tttttgacgt gtttttagctc ttctggcgctc 360  
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<210> 39409

<211> 185

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-G10

<400> 39409

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 aggtttctct gaacatatct ctgatccaat ctctcggcct gaataacttc atacctaaac 120  
 gacatctcat caagaataat ctcccatgg tgcaatacta actcaatctc cttatatagc 180  
 atgca 185

<210> 39410

<211> 139

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-A5

<400> 39410

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 gtgctatagt ctgtattatg gatgcgatg agtattgaga tgattctgca tttgaattgt 120  
 cggcttaaaa aaaaaagac 139

<210> 39411

<211> 188

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-C2

<400> 39411

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ggtatgatct gtataggcga actgctcgta gaaaacaagt caacaacatc aaaacttgta 120  
 tgggtccagt ggctgacta gtccttaaaa aaatttggtc acttgcaaaa cacataaata 180  
 attataat 188

<210> 39412  
 <211> 375  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-E5

<400> 39412

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 accgcggtcc tcgcgtgggg ttccggggag gacgggcagc tgggcatggg cggaacgag 180  
 gagaaggact ggccccactt cgttgaggcg ctggggccct acgccgtcac cgcgctcgtc 240  
 gccggcagtc gcaactccct cgccatctgc gacgacggcc gcctgttcac atggggatgg 300  
 aaccaacgcy gcacgctcgg gcacccgccg gagaccaaga cggagagctc cccgggcccc 360  
 gtcgacgctc tcgcg 375

<210> 39413  
 <211> 398  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-E7

<400> 39413

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 caaggcagat acaaatctgc atacacaaat gctaagcagc aatactttat taacattcca 180  
 gtgaaagaca cattcacaaa tcgagttgca cataacatgg aactgcattc tgaacgagat 240  
 acaacctgac ttcacaatgg tcctcattcg cacggcaatg agccaaccta tatgccattc 300  
 ttctgaacga ttgccttcaa tgctccgac atagacctat cctagatgat cacatgattc 360  
 aacctaacgt cacgctgggc aaagagctga cattacct 398

<210> 39414  
<211> 85  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-G7

<400> 39414

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aggagtgatt gacgaaacta agcac 85

<210> 39415  
<211> 131  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-H2

<400> 39415

cccacgcgtc cgtgaatccc tggtcatact tatatTTgtc tcatgaaatt tggtagaggg 60  
gggaatgctt taaaacgccc tgaatcattt tataaatcac atatgtctct attgctgtta 120  
aaaaaaaaac a 131

<210> 39416  
<211> 260  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-H3

<400> 39416

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tgattaacaa gaatggttgc ttgctatgtt tgcagtgcatt tcgtgcaatt gttaacctaa 120  
gattttgttg gtgaaaacga tttcttttca gacttgcttc tgttgagtgc tatcattcca 180  
tatcaatgta cttcctcttc tagaattttc gatgcccga agttcaaaag taaatttaca 240  
atgtagcgac tggtaaaact 260

<210> 39417  
<211> 288  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-D5

<400> 39417

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gggtctctgc atggtaaacg gggcatgtga cgacatgaac cgctctcagc tatacaagtt 120

atgtctctat gatctcgcat gccacctgct tgagctatac caacacaagc acaagcggac 180

taagatgttc gaggcactcg gcgtcctccg tgacatgcac cataatgtcg ccaacgtgat 240

cctaccagga catgtctgaaa cgtacacggt tcatacgaat atgactgt 288

<210> 39418

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-E8

<400> 39418

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gaaaaaaacc gtatcgtctc gctgttcag tttccttctc ttcccgcagc ccggtttgcc 120

gaccagggtc caccgttcca gagtagccaa gcgaatcccg tgtctgggtc gcgcgatggc 180

ggaggagcag tccaaccccc agcaccagca agcggaggag agggagggtta tgggtggagca 240

gcagcagccg aggagggccc cgaagctgag gtacctggac ttcgctccagg tggcggctgc 300

ccaggccgcg gtgtgcctcg ctgggctcta cggcctcgcc aaggaccagc ccggcccgcg 360

tccgcccagc gttgacgccg tcgagtctgc cgtcaagggc gtcggtagcc ccgtcta 417

<210> 39419

<211> 65

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-H5

<400> 39419

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gagga 65

<210> 39420  
 <211> 177  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-G1

<400> 39420

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 ggacgtcttg tttgtaatca tgaaccgctt gtacgtgtaa tatctagtaa accactctcc 120  
 accttacaca taaaataaag gtggcctcgt atcggattag ccattgaatt ccgatat 177

<210> 39421  
 <211> 296  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-B1

<400> 39421

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 tgtaccgaga tttttgaact taaagcggta ctacgtgctg ctaacagttg attaatgatt 180  
 tttctttgcc tctatcaaaa aaaaatcatt aatcaactgt tagcgggtact acgtgctgct 240  
 aacagttgat taatgatttt tctttgcctc tatcaaaaaa aaaaaaatag aaaaat 296

<210> 39422  
 <211> 423  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-018-Q1-K1-E6

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 ccggcccctt cacgggcccc cgcncgncgn cggcggatgc cgtaaggaaa ggggagggag 180  
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atgaggccga cggcggtgcg cacgtgaaca aggccaccgg cgaggtctgc ggcccgcggt 300  
 ggcccgagcc caccaggtac ggcgactggg agcgcgccgg ccgctgctcc gatttctgaa 360  
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 ccc 423

<210> 39423  
 <211> 340  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-G5

<400> 39423

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 caaaatgtca aggtctctcta caggaggggtg caagcttaca ttcaacttgc tgacctagag 180  
 ctagcagagg ccgatatcaa aaaggcactg gaaatcgatc ctgacaacag ggatgtcaag 240  
 ttggaatata agatcctgaa ggagaagatc aaggagtaca acaagaaaga cgccaaattc 300  
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<210> 39424  
 <211> 241  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-019-Q1-K1-E11

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 ccggcgctcg actggagcgc ggggtacctt aacgggtggc tgtcgcagcc gacgccgatc 180  
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 c 241

<210> 39425

<211> 376  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-020-Q1-K1-B1  
  
 <400> 39425  
  
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 gctccgagaa gccgacgaag caccgcctcc cgctgggagc cgatgccgac gctgtcgccg 180  
 aagcctcgaa gcgccgccga tcgggcgccca ccaagcagca ccaggcggac gaggaagcgt 240  
 ccatcccgcc ctctctcagc gcccaagatcc ttcgcgaggc gcgcaagcag caggaagagg 300  
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<210> 39426  
 <211> 62  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-020-Q1-K1-B5  
  
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 gg 62

<210> 39427  
 <211> 314  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-020-Q1-K1-C4  
  
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 gttgccatt aagctatggc atggtatccc tggtttcttg tatatcttgg agagcgtcag 180  
 ctcttatgca ggacatagtg ctatgccgtc aaactcttgt agaaatgttg taggcaataa 240



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<210> 39428  
<211> 410  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-020-Q1-K1-C7

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atataatgaa gctggaaaat tatccctgta ctccgatagt aagactatgg ttcaagcaaa 180  
ctttgagcag aaatacaagt attatattgg acaggatgga aatggaagtg atcctcaggc 240  
ttctggagca tacatatntc cgcctaattg cacagttcca atcagtactg atgggcaggt 300  
ttctctcaca gttctgctg ggcccatatt ggatgaagtg caccagcaga taaattcatg 360  
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<210> 39429  
<211> 458  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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catgagaagg gccagagata caaggaaggc aagttttattc tggagaggta caaggtgtcg 180  
ggccctgacg gaagccaata ctgggttcca caagatgtc acttgggcg aagcgacgcc 240  
gatgacatat aaaacacgat ccaacaagct caagcctgtc gttgatcccc tgtaaataac 300  
ctgngtggcg ttgctcttta ggcagccgac agccggggat tgctccattg aaataattcg 360  
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ccctggaagt cattagatgt taccgctgta tatgtgcg 458

<210> 39430  
<211> 449  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-020-Q1-K1-H10  
  
<400> 39430

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tctcacggtc aggggaaatg gaagaccttg tcattgaact ggccgacaga tgcaacctaa 240  
ccaccaaacg cagcgggcgt catcttgta tctcgaaag ctgggacaga gataagattt 300  
tattcgagag catcgacttc tcacggatac ggtcaatgac agtgtttga atgtggagat 360  
cattcttcat ctccaaaagt atgaagctcg tccgggtgtt ggatctggaa gatgcattag 420  
gtttaacaga tgaaaatgtt gatcagatg 449

<210> 39431  
<211> 156  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-021-Q1-K1-A5  
  
<400> 39431

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ctacctttcc ttccggtgct cccaacttcg tctctt 156

<210> 39432  
<211> 404  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3069-021-Q1-K1-B8

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tgacccgate ttccagattt cccgtcgccg agccacgcgg gtcgagtacc cgtcgaactc 120  
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aagaggaaga agcagaagct cttcgagatc cagtccggcg ttgaggaagc tgaatcgctg 360  
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<223> Clone ID: LIB3069-021-Q1-K1-D8

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accttcagca tgagtctttg atgtgtgaag caaatcttcc agctccagac ttctttgccc 180  
aactgaatga gcttgcttgc cgaactgaat gcgcttggtc ttgatgctct gaacatttat 240  
cagtcagctc cttgacttct tgttcaagta gctgattttt agacactgag gaatctaggg 300  
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<213> Zea mays  
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 cgcggcgtgc tgcagcggng tgcgctcgtt caacagccgc gcgtcgtcng cggcggaccg 300  
 gcaggccacc tgcaactgcc tcaagagcat gacggcccgg ttgcggcgg cgtcagcatg 360  
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 <213> Zea mays  
 <223> unsure at all n locations  
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 ctcatgaccg cgagcatggc gtataccagt ttacactct gtagagggtg taccctttac 180  
 ccacaagtca tattactcat ctgccacggg gttgtacgga tctcatacac ctctaccaag 240  
 gaagcggaggc agggtaacac tacgaggcct ttacaaagtt ctactagctt cagaaaactc 300  
 gttacaattt ctaggaagag caatgcagga atctcccggt tgatcgctat cgcagcaaaa 360  
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 <211> 344  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-022-Q1-K1-A5  
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agcgggtcaaa cttattgaac gagttggagc aaagggttgtt gaatgtgctt gcgtaattga 180  
attggcagaa ctttaaggcgc tacacgaaca aggggacatg ccagcactgt gtctcgacga 240  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-B12

<400> 39437

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gaagaactag aacgtggtga gaagggcatt ggtgatggaa ctgtgagcta tgggatggac 180  
gatgctgatg acatatttat gcggctcctgg acaggaacta tcattggtcc tcccaacact 240  
gttcacgagg gacgaatcta tcagttaaag ctgttttctg atacagatta tccagataaa 300  
ccaccgactg tccgattcca gactcggatc aatatgacat gtgtgaacca agaaactgga 360  
ttggttgaac caagtctatt tcctatgctt ggaaagtggg aaagggaaca tacgatggag 420  
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<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-D12

<400> 39438

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<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-E12

<400> 39439

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actgcgctgt ctgctacaag actaactacc ttgtgcacta cctcacacgc acgacatgcg 180

catgtgctac aggcgggttct tccgcttcct ccacttcaag gggtagcttc agctcgtgaa 240

ctacaacttc ttcgactgag tgctctactt gattcattac ttctacccca tggctcctgaa 300

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-E3

<400> 39440

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catatgacta tctgacggga taactatgag gctcgaactg attgccctag cgatcaatga 180

cgcaacatgg gagtacatta gatcacgatg agtatctgag aattgag 227

<210> 39441

<211> 470

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-E5

<400> 39441

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gtatggagaa acataacaaa atacgttaga ttcattaagg acatgtacaa caatgttatg 180

aatagtgttg aacaagttat aaggatgtat ataacttttt gattaaaata ggactatatc 240

aagggtcaac tttgagcctt tacctttctg ccctagtgat agatgatgtc acaaggggaat 300

acatgagatg aacatgaata tatgagatat gtggctatac aagaatggat cgagttcaaa 360  
atgatgatat acgctataga ttataagtag cactagcacc aattaaagaa aaacatatc 420  
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<210> 39442  
<211> 345  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-022-Q1-K1-E9

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tcttacgatt tttgttgacc agtattcata gggttttagt tagcaatgtg ttgttgggcc 180  
gttgctagtc cttgtaatac aagcccacct gtttttttgc gcacggcaag acttaaaactg 240  
acaacatttt gtagtacctt ttattttgta tcacctgtc tatacacgag ttttcttgga 300  
acatcggaat taataatgcc ctccaaaaaa aaaaaaannn aaaaa 345

<210> 39443  
<211> 434  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-G8

<400> 39443

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tcttgacaag aaggcaacca gtgtcgggtga gaagaatgtc ctcatTTTTG accttgaggg 180  
tggtaccttc gatgtctccc tccttacaat tgaggaaggt atctttgaag tcaaggccac 240  
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ccaggagttc aagagaaaga acaagaagga tatcactggc aacccgaggg ctctccggcg 360  
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tgagattgac tcgc 434

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 <211> 441  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-H9

<400> 39444

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 agaaacggta gactgccact aggattgaaa gtatggaaga ccactccgtt cgtggaagat 180  
 atacttgttt ctggaacgga agctgtaaaa cttgtcagtt gagtatgtga gaggatcaag 240  
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 agggagactg aacggttttc ttcgagcata ctgcatgcat tgatgaactg accactgaca 360  
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<210> 39445  
 <211> 94  
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<223> Clone ID: LIB3069-023-Q1-K1-C12

<400> 39445

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<210> 39446  
 <211> 66  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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66

<210> 39447

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-F4

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ttccgcctga ggaaggcgaa gaatgaccag ctgaaggcgg atgccaaaaa gtgcggcgag 180

gttatcagca ccaagaggca gccattgggt cccaagcccg gcttcatggg cgagggcaccc 240

accattgaga ccgttacttc catcccatat gatgtgggtca atgatctcaa ggggtggatac 300

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<210> 39448

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-H8

<400> 39448

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acctgcgtgc tggatgatga aactttatat tagttctcat gaggaccttg taccgaccaa 180

ttgtgtggcc taatccagta agtcactctt gtaaaatcat actaactctt attgtaactg 240

gatttggttc cgaattaatt cttttt 266

<210> 39449

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<213> Zea mays

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tcggcggcct cgcttggggc acggacgacc actccctgca caacgccttc agcacctacg 180  
gcgaggtcct cgagtcctaag atcatcctcg atcgggagac gcagatgtcc cgcggcttca 240  
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<210> 39450

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-C2

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acaaggaacc ggaaatgttc tcattgttac tcttgttgat gcggagacag aaagtagcat 180  
aaatgctacc atgcttgagg aaggccttgc tcggcttgaa agaagcaaga gatgggacac 240  
tagggagagg aagacgggtc tccagaacct gtaacagttc caggagaagg caaagaagga 300  
aaggctgcgg atttggcagt atggcgatgt tgaatcggat gaagacgagc agggcccagc 360  
tgcaatgaag cctggagggtc gtcggtagag ctccccaaat gtgagactct gctgggagtt 420  
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<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-D12

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aaaccaacaa tgtctatacc caaaaaacgg cacagaagta tgaagaccac ggcgcggcgt 240  
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 ccaaacttga tact 314

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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-025-Q1-K1-F3  
 <400> 39452

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 taaaccacg ctgggactac tgggtggcgat gatgggggtg tagaagagaa cagatctact 300  
 aggctagctg tagctttctc atgcctggat gatattttga tccagtcttc tgtggaaaaa 360  
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 tctgttttttc ctagtataga ctaacatgta atgaacaagc cctccaatga acaggcatat 180  
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 gcaaatgcag ccgtggggat ggatggatcc aagtatggag ccatttaagc ttcggttgcg 180  
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 aaaaaaaca caagaaactt actt 264

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<223> Clone ID: LIB3069-025-Q1-K1-H11

<400> 39457

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<223> Clone ID: LIB3069-025-Q1-K1-H2

<400> 39458

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<210> 39459  
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 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-026-Q1-K1-G12

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cgctggccac atgccggctt cgctcgccgc gcttgggtcc gacgacgacg ccttcagcgg  420
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<223> Clone ID: LIB3069-027-Q1-K1-B10

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 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<210> 39462  
 <211> 397  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-028-Q1-K1-A12  
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 cttcaccaag tatttagatg gaatttggtg gttgatccta ccacataatc cttgatgtta 240  
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<210> 39463  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-028-Q1-K1-A2  
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ccaactactt ctcgacaaca aatgacagac acatcaggat gtaattaagg gattatacat 180  
ggcattagga aatctatgac ctatcgctat atatgacggc acaaatgttt tgactaaatt 240  
gccacctaaa atgttgaaac tagtacttta caggagacag ttgtgacgaa agttaccagt 300  
gctagctaca ccgaagagta cctcttcatg gtatcgatgg ctcaactgct ctgaagcatt 360  
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<210> 39464

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-A3

<400> 39464

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tggagcacta ctaccggacg ttcgacacca accgcgcggc gctggtgggg ctgtatcagg 180  
agacctccat gctcaccttc gagggccaga agttccaggg cccatccgcc attgccggca 240  
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cgtcgggggc ccagggaggc atgctcgtct tcgtctccgg ttccatccgc accggccccg 360  
aggagcaccc catcaagttc tctcaggcat tccatttgcg gccggcagct gggctccttct 420  
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<210> 39465

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-C12

<400> 39465

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gaggggaagat ttcctcaaag cgaagaagta ctccccagaa gacaaggaga tcattcggga 180  
gctccgtttg ctgcggaac aagacaaggc actataccag aagcagaagg agctctacaa 240



aggctctcttt gggccaagtc ctgaagcgaa accgaagaag gcaaagtacc tcgttgtgtt 300  
 ttggcagtgc ctggtgtcat ttatccttta tctggctggg atgttcaaac ggaagaacga 360  
 gtaggataat ttaccagaaa attgtgtaga actgggtggcc taattgacca accttgtatt 420  
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<210> 39466

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-C5

<400> 39466

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 gcctgatcca aaaccagagc ctaaaccga accaaaacca gagccccaac caaaaccaga 180  
 acctagccc gaacccaaac cacagccaga acctagccc gagcccaaac caaagcctga 240  
 ccctccacac atcccaccag cagctatcaa ctgaggaagt ggctattaac aattattgta 300  
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<210> 39467

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-G8

<400> 39467

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 aacaccttct acataccttc actttcaaca cctacctgtc tcaagtttat ggcctcttc 180  
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<210> 39468

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-H2

<400> 39468

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aagcagcttt aggatagctt ggtttgctcg accgacatgt tgcaagttta tgcgcctttt 180

tctttattct ccgcccctcc agttttgccc gttgtagtat ggaacttata acatgcgtgt 240

tttatgccgc atcttacaaa atatttttgt cc 272

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<212> DNA

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<400> 39469

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gtagtgtctg ttgcatcttg catggaccgt cattacctcc tgtttcttga cagtgtttgt 180

cacctctcac cggccagggc tcccactaat agaaataaaa cttttgttct aagc 234

<210> 39470

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-B9

<400> 39470

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gtggtgacaa tcacattggc ttggagctcc tgggctgcgt atccattcat gagcgtgct 180

gttaacccaa ggagaaaagc tctggcccta tatcctgtct tctcatgta tatctcagtt 240

ggtttcctca taattgccat tgattaacgg ggttgagctt tgtagtaaca tctgaagagt 300

tgagagtttc cttggatggg tgaaccacca gaatacatag aagtttgagt agacaatgct 360  
tctatccttg taccctcgtg gagtctttgt gaattgcctc gtaagaattt ttgtttttac 420  
atg 423

<210> 39471  
<211> 343  
<212> DNA  
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<223> Clone ID: LIB3069-029-Q1-K1-C1

<400> 39471

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tcagccctga ggagatcagt gccatgattc ttggcaagat gaaggatact gctgaggcat 180  
accttggcaa gaagatcaat gatgctgtcg tcaactgtccc tgcgtacttc aatgatgcgc 240  
agaggcaggc aaccaaggat gctggtgtca ttgctggcct caatgttgct aggatcatca 300  
atgagcgcaa ctgctgctgc tattgcctat gggttggaca aga 343

<210> 39472  
<211> 177  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-D5

<400> 39472

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tggtaccctc cgatttgtct tactttacta cctgtgtaat tagctatccc ggtcttgctg 120  
acaggcactg ggccaaacgg tgtacctaatt gctgtgctcc tgctctcaaa gacctgc 177

<210> 39473  
<211> 373  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-E3

<400> 39473

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 cacttcttaa ccattttgcc agagcattta aggagcgagc tcagtcagac ttgaagaaaag 180  
 ctgcagacaa acattggagt gatggcgctt tggaggcaga cctgcgacga gctgacttgg 240  
 ttgttaaacy acgtgccatg gaagacgctt tcatggcatt gaagtttgtt caggatatcc 300  
 atgacatgat ggtgaacaaa atatatgagc agctttogaa agacgggtca tcttctcgta 360  
 caaattcaac agg 373

<210> 39474  
 <211> 203  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-F7

<400> 39474

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 acaaggctag ctgcatatgc gtcattagcc acttacactt aaattattcg tgactaagaa 120  
 ttcaggaatc tttttcttga ttaaaaaaaaa aacaataaaa agaaaaaaaa aaacaacaaa 180  
 aaaaaaaaaac gactgcaaat tag 203

<210> 39475  
 <211> 133  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-H3

<400> 39475

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 aggggatcta aggtgacctt cgcgggcttc caacaccatc gatctacaat aggggcacct 120  
 aaatttaatt cat 133

<210> 39476  
 <211> 411  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 39476

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 gtagagttga actcggataa gctctcacag ccatctgatg tcaacaattc tgatgcccta 180  
 gcagctagca gtgaacgttc acctcttgaa tcccaaagcc ggcaagtgag gagctgtacc 240  
 aaggtaatta tgcaaggaat ggcagtagga agggctgtag acctgacaaa gcttagtggc 300  
 tacagcgcgc tttgccagaa gctggaggag atgtttgaca tcccagggga gctgggttcc 360  
 aactaaaga aatggcgggt cattttcact gatgatgang atgacatgat g 411

<210> 39477  
 <211> 300  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-E12

<400> 39477

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 tctaagcgca actagccaac ctgtagcatt ttctgtcacc agcatttgaa gttttgaact 180  
 gagccctggt cgtgtccctg aggtttgatg tgctcttggt gtactactcg tatttgctaa 240  
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 <213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-F10

<400> 39478

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 ccatctagta cctagcaagc atcaccacac gaaccttaaa ctgacgagta ctaacagcga 180

tacaaggaat atcatatctg taccaagcac tgcggagaat gactt 225

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<223> unsure at all n locations  
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aagccctaata taaaggggtca cagttcccaa gcaaatgcct tagctcagca aactctgatt 180  
gcacattggc agagcattgt gaaaatattg acaaattact tgaatgtttt aaaagcaaata 240  
tatgtccctt cagtcttaata cagcaaagtg ttcactcaaa tcttttcatt tattaatgtt 300  
cagttattta atagtcttct tcttcgacgg gagtgctggt catttagcaa cggagaatat 360  
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<211> 285  
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<213> Zea mays  
  
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aggctctatg ccgtgggtat cctactgagt ttgcatcata tttccattat tgccgttcac 180  
tgcgatttga tgacaagcct gactattcct atctcaagcg attattccgt gaccttttta 240  
tccgcgaagg ttttcagttt gattatgtct ttgactggac aatat 285

<210> 39481  
<211> 206  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-A9

<400> 39481

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tgatgagtct taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa   180
aaaaaaaaaa aaaaaaaaaa taaaaaa                                     206

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<210> 39482

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-B6

<400> 39482

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tgtaggtcga attggtgtac agaatggacg aggtacatat cataaatgtt atgtaaattt   180
agtgggggca ggggtgatag tggttaagaa atcctgtaaa gatggaatac attttatacg   240
tgtaaaatac gagtatttaa gggccacgct gtaaaaatag atttacctgt aaaagataat   300
gaacatatgg tcctactttt acca                                     324

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<210> 39483

<211> 201

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-B7

<400> 39483

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accaatgtga aatggattat attttgaaaa taccatcttg atgatgaatg acaacaaaaa   180
atgattgaga acaggcgtgg a                                     201

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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-031-Q1-K1-D10  
  
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 ttgtaggag aagcttggtg aagtccatga gataggaatt tgggtgagatc acatagcaga 180  
 ttgccagaaa agtgctctat gaaatattgg tagaagcact ggggtgggttc gggatattgg 240  
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 <213> Zea mays  
  
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 gcgtcaccga tcgtgctggc gctgccgtcg actacatcga gttcacctat actgacagcg 180  
 ctgggcagag gcgcgccgct gggcgttgcc gtggacttgg cggcaatggt cgaacgatcg 240  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-031-Q1-K1-E4  
  
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 aaaa 64



<210> 39487  
 <211> 289  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-031-Q1-K1-E7  
  
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 tggcacggtc atactggccg agtacacgga gtacaccggc aacttcaaca ccatcggtt 240  
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<210> 39488  
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 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 cagacgagga cggaagg 77

<210> 39489  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
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 attgatcaag tgcagtctac atgcgtttgg gcgactcctg atctagctcg cggacatgca 180  
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caaatgtcgt ctggtggcaa aggtcaaagc aggaaggtct tctctgaggg cttgcagaac 300  
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<210> 39490  
 <211> 243  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3069-032-Q1-K1-E8  
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<210> 39491  
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 <213> Zea mays  
 <223> unsure at all n locations  
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 cccgccttcc cgagccgcac gccgccagat cccaccctca ggtgccgccc agcgccggat 240  
 cccgcttcac cgagctcccg gtcgccggat cccatcgctc cgagtagggc cgcgccgatc 300  
 ctgccgtccc agagcaggcg ctgccggatc cgtcttcccc g 341

<210> 39492  
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<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-A1

<400> 39492

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<210> 39493  
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 <212> DNA  
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<223> Clone ID: LIB3069-034-Q1-K1-B4

<400> 39493

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 <212> DNA  
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<223> Clone ID: LIB3069-034-Q1-K1-C5

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 tccagccatt gctcaaggat aatcttggtg ccaaagggat agtactttca ttcattactg 360  
 agtttttcaa ggagtacctt gaggaaaaca gcttgatga tttgatggca cttttgaaga 420  
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<212> DNA  
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<223> Clone ID: LIB3069-034-Q1-K1-C7

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gcgacgccgt cgtcgtgctc gctggccaga tcgtgctccc tggaccggcg cgtcgagttc 180  
ggcgtcaaga acaggagctc gtggctgccc ctccgcggct gcgaagccac ggcgccggcg 240  
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<210> 39496  
<211> 310  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-F12

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cagcgctca caacggtgga agttatggtg ctgcaccata ctcgtcgagc tatggatact 120  
aatccggagc aagagcttgc ctcagactta gggaaggagg gttatcgta tggttttgtt 180  
tgctagtcta ttcatctgtt gagaactcaa gattgttatt gttaggacgt gtgaactttg 240  
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aatattatcgt 310

<210> 39497  
<211> 138  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-F8

<400> 39497

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gacattctaa aaaactccaa acttacatac gcctcatgct acatcatacc tcttctatag 120  
 agacacctaa attcaatt 138

<210> 39498  
 <211> 78  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-H7

<400> 39498

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 aaaaaatata aaataaaa 78

<210> 39499  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-B11

<400> 39499

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 taagcacctg gcgtctgatc taaaagccca tgaccgagcg cactttccag cagttgcaca 180  
 ccctgatggg cgaatggaac gccctctg 208

<210> 39500  
 <211> 176  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 39500

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 ggccnnngtg ggttctcaag ggcnccagc ntttggtcga ccccttgngg tgaagc 176

<210> 39501  
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 <212> DNA  
 <213> Zea mays  
  
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 tcaccc 126

<210> 39502  
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 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 agttaggatg cgataggggc tccctccaat gcaaaatcac attaaccatg tcaccgctgt 180  
 caattgtttt tttgagtttg ttcccaaaac ctcttaatta ttattgcca cggatagtca 240  
 tgttatctac ataatccgtt tttgccactc ttcagggttc tgcattgtga atagaggttc 300  
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<210> 39503  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-036-Q1-K1-D2  
  
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 gatagagtta cctaaatgta gttttctaag gccagcttaa gaacgtcact aactgggaga 180

atccccgcggt tgcgcaacgt aatggccttg ctggacatca gcctttacac agatggcgtg 240  
 atatctaaga tgcccagtag gatcgctctt gtcaccgatg gcgaaaccta ta 292

<210> 39504  
 <211> 438  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3069-036-Q1-K1-E8

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 tactaatata cttgtctaag tgtagaaaac agaaagaaga agaaaagaaa agagatgaaa 180  
 aaaggcttgg ctgggtacag ccaagactca gctcggctctg gcacaccgga ctgtccggtg 240  
 gtgcaccgga cagtgtccgg tgcgccaggc tgactcggcg cgaagtggcc gctctcggga 300  
 attcgtcgac agcgtacgac taanattcac cggactgtcc ggtgtacacc ggactgtccg 360  
 gtgagccaac ggtcgtgaaa agaaatgtgc ctttgggcca tttctaagta ttttgtgatt 420  
 gagtgccaac acaagtgc 438

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 <211> 60  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-F10

<400> 39505

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<210> 39506  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-F3

<400> 39506

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 aatcgggtgag gcacggaatc aacatcagga tcactagcac aaaacattca ctccagaaca 180  
 aatgggggtg agcatgggtc tcagcaactg caaacctgt atcgcgtcga ctctctagat 240  
 ggctaccaga tgcattgacag tgaacattct cttgaaaaac tgcctaagta tcgacaacga 300  
 tacagcatgc cgctgcaatc ttatgtgata tgagaagaaa cattgaatcg 350

<210> 39507

<211> 71

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-F9

<400> 39507

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gaaaaataaa a 71

<210> 39508

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-G11

<400> 39508

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ccatgcggag atccccacca gtttcgggtcc cgagctgcgc gcctgcctcc gatgccgcct 120

cgtcaagacc tacgaccagt tcagggagaa cggctgcgaa aactgcccggt ttctagagat 180

ggacagagag cacgacaacg tcgtcaactg caccaccccc aacttcactg gaattatctc 240

tctgatggac cccagtagga gctgggcagc ccgttggttg agaattggca ggttcattc 299

<210> 39509

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-H10



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taggcggcgg cgccccctctt gagaagtgaag agggaaagat ttgttttgcc gccgcgccc 180  
tgctcaggcg ctcggcctcg gtcggggccac acaaggtagc gccttccgcc tcgttgcttg 240  
acccattcct gtttcgttcg aagcactgaa gcagccccag accgacgcca ggcgcccagg 300  
ccagtggctg acgcctgtgg tgagctgata ggcca 335

<210> 39510

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-C7

<400> 39510

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ttggagctga gtcattggga aaacggccac agcgatgttt atagaatggc actgccctga 180  
tagtaattta tcgtgttcaa tgtatgtctc catagtcttg caccactg ccaactcatt 240  
agttctttat tcttgagaa cagtttttgc cagagtgtta tactgtcatg atatgatcca 300  
ttctttgtag acacagagat tacaacacaa aataag 336

<210> 39511

<211> 242

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-D5

<400> 39511

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attctactac cgtttttagg ctgttttaaa ataccgaag attcccaaaa aaaaaacca 120  
aaaaaacccc aattggatct ttactccctt tactgaactg ggtctccttt tccttgctta 180  
ctacagtact actagtggga tccgtccatt tgacaagaca acaccgggc ccaaacggaa 240

<210> 39512  
<211> 269  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-H3

<400> 39512

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acggcttctc attggtgcag cttatgcgct ggttgctgctc atccagcaac cagtccttac 120  
atagatgctc aaaattcgct cttggcacat gcttctgtag cagctcgaga ccttacgaga 180  
gatcaagctg tttataatgg ttaggccgtg atcatcctgc acatcatgtg ctactagtct 240  
ctaacatact taccaggtga ccaatcagc 269

<210> 39513  
<211> 177  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-C2

<400> 39513

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gtgttggttaa cagtgcctg gatgcttaac cggttgtaa gtgaagaagg ctcaaactac 120  
cggaagaatg attgagatgg ttgaacacag aatcttacct tctcagttgg atagact 177

<210> 39514  
<211> 384  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-E5

<400> 39514

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tatcccaatc aaaaacacgt gacttctcta tagccctata cagctgcttc cacctccagc 120  
agttctgact tcagaacaag cccagccatg ctagaacttc agccacagct ggacgatggc 180

gtgccaacca atagttagcc catgatgtca gctacacatt tctgatcagt gagaattcgt 240  
catcgtgtac cttgctatgt gtttcttaat ttctgtctat gtacactgga atcacacca 300  
gggatctgtt aggatgatga ttagtgtgac tttgatgctg acaagggggc tggaggccct 360  
ggttgacaca ggcagtcagg aaaa 384

<210> 39515  
<211> 381  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-038-Q1-K1-F4  
<400> 39515

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gcctgatcat ttccccctcc agggactgaa agacagtggc attgggtccc aggggataac 120  
aaacagcatt aacatgatga ccaaggtgaa gagcactgtc ataaacctgc cgtcaccatc 180  
ctacaccatg ggctgagata ttcttgtaa gtgttctata gctccatgag catgtagaga 240  
gttaaagtgt tcatagccac gtgagatttg gacgctatct acacctcagt tcttctctgca 300  
gaagatcttt tgcagtttaa agaataaagt gcgttgaaag taaaaaaaaat aaatatttta 360  
aaaatgtttt tgaaataata a 381

<210> 39516  
<211> 92  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-038-Q1-K1-F6  
<400> 39516

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aggaaaaaat tttaaaaaaa cacaagaata ca 92

<210> 39517  
<211> 305  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-039-Q1-K1-A7

<400> 39517

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gtttcgatcc catgtgcgta gactgggacg actatattcta caggggttcac atccccggtg 120

ttgtcaagta cctgtgtggt tactaggtta atacatattt aagatccgga gagagccaaa 180

tgtatcttcg catgttttaa tacacaaata tgtcgctgta gtttgcagat tattaatttc 240

cctagcattc ttgttcagtg gtacagggtt ttaagaatgg tacttgtttt cttttaaaaa 300

ataac 305

<210> 39518  
 <211> 127  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-B6

<400> 39518

aaaaaaaaa aaaaaataa aaaaaaaaaa taaaaaaaaa aataaaaaaa aaaaaaaagg 60

gggaataaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

ataaaaaa 127

<210> 39519  
 <211> 102  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-F2

<400> 39519

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agaagaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 102

<210> 39520  
 <211> 59  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-A11

<400> 39520

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<210> 39521

<211> 452

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-040-Q1-K1-A7

<400> 39521

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aggctcaatg cgcccaagca ttggatgctc gacaagcttg gcggagcttt tgctcccaag 180

ccatcttctg gacctcacia gtccaggag tgccttctc tgatcctcat catcaggaac 240

aggctcaagt atgctctgaa ctaccgtgag gtcatttcta tcctgatgca acgcatgta 300

cttgttgatg gcaaggctcag gactgacaag acctaccctg ctgggttcat ggatgtcatt 360

tccatcccta agacaatgga gaactacagg ctgctttatg acaccaaggg gccgttnoqt 420

cttcacccaa tcagggatga agatgccaag tt 452

<210> 39522

<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-D4

<400> 39522

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attaccccaa cagacctgca actgttcggg ttgtttcgag gatgtttcat ccaaactct 120

atgcggatgg aagcatctgt ttggacatcc tacaaaacca gtggagccct atatatgatg 180

ttgcggcaat attgaccctc tattcagttc ctgctgtgtg ac 222

<210> 39523

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-040-Q1-K1-E5

<400> 39523

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gcagcaagct ccattggaaa tgccaacaag atgacgtacg agaggctttc agggagtaat 120  
tgagaataag aacgttttca tgtgttcctg cgagtgttct cgtcgttttt ctttctcttt 180  
ttcttgtttt tgcaatgtga tcaatcatgc gactagtgtt tcttttcttt ttatcagtgg 240  
ccaacaagtg tatgacggaa atttgattca tactgcactt ggcatgtaaa tccttgctct 300  
tattaatgct gntcttggat tgtgtcaaaa aaaaaacaaa aaaaaaaaaa aaaaaaaaaac 360  
taaaaaaaaa acaaaattaa ataaataaca atctcaaaac aaatttttaa aaaaaaaaaa 420  
gggcggc 427

<210> 39524

<211> 208

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-G1

<400> 39524

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gaacacatat tagcatactg atgatgcgaa actctccagt ttccacgcct tgatgaaatt 120  
gtacatctct caagaccaga tatagatatg gttcctgtcg gaggtagcaa gagctcctag 180  
tccgcaccat gcacttgcca agacgggt 208

<210> 39525

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-H12

<400> 39525

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gtacttgggt gaagaaatat tgattatcag agatgctgct ggagcacctg acgtcttaac 120  
cagacttgag gggccgcaac cgaatccagg tgacggcaca gcagatgcag tgatatcgga 180

atatgaaagc taatgcctca gtgctgactg tagctccgca cctagctcct gtttatggct 240  
cctttctcct ctttggcat tttctcagtc tcgcgogtat ataaagcttt ctagtcttag 300  
tgttgtcaaa aaaaaaaaaa cttacagaag caaagcgtag cataat 346

<210> 39526  
<211> 406  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-041-Q1-K1-A10

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agaaaggctt ccttctggag ctcggttat aatccaatct gcaccttgt gtgaagatag 180  
tgatggcagc aatgaatcac tgtaaagggc tgtgttacat atgttnttct tctttttatt 240  
tcattttact gagaatgaca tttgttgaa tttggtgctt gagtgtggca tagctcttgg 300  
agtaggttca aaggatttga ttttgtaaac tgtgaatgtg atagtcaaca ttttctcaca 360  
ccttgaagaa gagaatactg tatcttgctt taaaaaacat acaaaa 406

<210> 39527  
<211> 260  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-B8

<400> 39527

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cgaatcattt catctgctgc ttgggctcta acaatcatga actgatcagc aattactcac 120  
taaaataact caatcacttc taacatacct atgacacaga cattgtcttc atcaattacc 180  
gctgaaatca cgtatgaatg taccatgtat ttacatacaa agttagtagt tttatttttc 240  
aataatttag ataatttttt 260

<210> 39528  
<211> 202

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-041-Q1-K1-C5  
  
 <400> 39528  
  
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 atacgaacga attaggaact agctgaaggc tttacgtgta ctcttatagt cttatttcta 180  
 gtagggcagg agttggtgac tt 202

<210> 39529  
 <211> 327  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-041-Q1-K1-D1  
  
 <400> 39529  
  
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 cctcgcttgg gccacggacg accactccct ccacaacgcc ttcagcacct acggcgaggt 180  
 cctcgagtcc aagatcatcc tcgatcgga gacgcagaag tcccgcggt tcggcttcgt 240  
 caccttctcc acggacgaag cgatcgga cgccatccag ggcattgaac gcaaggagct 300  
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<210> 39530  
 <211> 322  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3069-041-Q1-K1-D5  
  
 <400> 39530  
  
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 cagtcgtctg tgaggaagtc agttatgttt gagtgaagg ggtacttcgc tcttcgggtga 180  
 aactgtact tgtcatgagg agagttttca taccggaggt gtacgaactc tgtactgtac 240



tcggatcctt cctttttcat cgaagtgggt tttattttat caaccgtatc tataactcgtg 300  
gttttgctat taaaaaaaaat aa 322

<210> 39531  
<211> 380  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-F9

<400> 39531

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caaccgacca tggctacccg catccagttt gagaacaact gtgaaattgg cgtgttctcc 180  
aagctgacaa atgcttactg tctggatcg aatggatggc cagagaactt ctacagtgcc 240  
tttgacgctg atctcgcata tgccaatcct gtggtcaaga cctccattgg tggcactaga 300  
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gaccaagagc ttcaacatct 380

<210> 39532  
<211> 200  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-G4

<400> 39532

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ccacgcgcct ggcgtacgcc atctgctcat tcgagaagat cccggcgatg cgtgcgtaca 180  
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<210> 39533  
<211> 373  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-A6

<400> 39533

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ctcgccctgg cggcaaccac agccgcggcc aactccggct tcgcggactc caaccgatc 120

cgtcccgtca ccgaccgcgc ggctccgcgc ctcgagtcca ccatcttcgc cgctgtcggc 180

cgcacccgcg acgcgcttcg cttcgcacgc ttcgccatca ggtatggcaa gagttacaag 240

agcgcggcgg aggtccagaa gcggttcagg atctttctcg agagcctcca gctcgtccgc 300

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tgggaggagt tcc 373

<210> 39534

<211> 372

<212> DNA

<213> Zea mays

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<400> 39534

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caaagcggcg aagcgggaag gaagcagtaa cgatggggct tgactattac aagatcctag 180

gcgtcgacaa gggcgccacc gatgacgacc tcaagaaggc ctaccgcaag ctcgccatga 240

aatggcaccc cgacaagaac cccaacaaca agaaggaggc cgagaacaag ttcaagcaga 300

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gcgaggaggg tc 372

<210> 39535

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-G3

<400> 39535

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atgcacgaac tcggtggcgt gagtactgtt cacagataaa agatttacag tgctacttgg 180  
atgtagcatc aaacacatat ggctctacac cgtacgagtt atttgatgac gtgatcaacg 240  
tacttggccg acagtctcaa gaagaccaga tccacattta agaaacgggtg taatctggag 300  
agattactat gacaacttta tgggccttag acgaattcca aactgctact ctggacgatg 360  
atgctcttaa 370

<210> 39536  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-A5

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gacctaccg cagcaggctg gcaccgtccg taagaacggc ttcacgtca tcaagaaccg 180  
tccctgcaag gttgtggagg tttctacctc caagactggg aagcatggcc acgcaaagt 240  
ccactttgtg cgcatagaca tattcaatgg gaaaaagctt gaagatattg ttccttcac 300  
acacaactgt gacattccgc atgtgaaccg tactgagtat cagctgattg atatttctga 360  
ggatggat 368

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<211> 432  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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caggtacagt gaaaagttca caacggaagt ggagggcaaa ttcactgcac catgggatca 180  
gggttcccg cagcaagaat atcaagcaac gagttctggg gctccagctc gtcgtgccac 240

aggggtagct tgtcgccagg gtagaagttc ctattcacgc catccgcatt tattgtaact 300  
 gtacggacaa ctctccgct agcaccatca cgggccatag caagggaac taccttcacc 360  
 acaaatttct ctgcctcttn ctggctcatt cctcttttcc attcatgatc aagaagtgca 420  
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<210> 39538

<211> 85

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-B6

<400> 39538

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aaaaaaaaa aaaaaaaaaa aaaaaa 85

<210> 39539

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-H9

<400> 39539

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cgccactggt attttgagc ttcgatggag tgggtgtggc attgaggatt ggtggagaaa 180

tgagcagttt tgggtcattg gtggcacctc tgcacatctc tttgctgtgt tccaaggtct 240

cttaaaagtg ctagcagga tcgacacaaa cttcacggtc acatcaaagg caaccgatga 300

tgatggtgat tttgctgagc tgtatgtgtt caagtggaca actcttctga tccccccc 358

<210> 39540

<211> 69

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-F1

<400> 39540

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gggcaggct 69

<210> 39541  
<211> 301  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-G8

<400> 39541

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gcaccagcta ctacctgctt gtcacacctg tgtggaagaa gagctctata agttgtcact 180  
gagtattcct ggaatgcaga acttatgggc tgtgacgaga tcatgtacat attatttgga 240  
aatgactttt ttgatgcaaa acaaaattgt ctaaagggtac atacgctggg cttgtcaaaa 300  
c 301

<210> 39542  
<211> 223  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-H10

<400> 39542

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aacaccgtta aaagttagtt ttgcaaaacc aggaaggcga acttggggga acatacacgc 180  
cctgggtgta cccaaggatt aggagtggac cccatgaaaa gtt 223

<210> 39543  
<211> 288  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-D6

<400> 39543

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 tctttttttt cttctttctt cctagtattt tcttcccttc tcttcgcac atagatgat 180  
 tccttagtgt ctagctgctg tttttgtgta aacctctgta agtttctgt tccatcacat 240  
 atgagtaagg cctttttgtg tctttttatc taagtaaaaa aatatgat 288

<210> 39544  
 <211> 58  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-G10

<400> 39544

tcgcccacgc gtccgcggac gcgtggtaaa tttcttaggg aagttgtagt ttttccgc 58

<210> 39545  
 <211> 443  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-H4

<400> 39545

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 atgtcggact cggaggagca ccacttcgaa tcgaaggccg acgctggggc gtccaagacc 180  
 taccgcagc aggetggcac cgtccgtaag aacggcttca tcgtcatcaa gaaccgtccc 240  
 tgcaagggtt tggagggttc tacctccaag actggtaagc atggccacgc caaatgccac 300  
 tttgtcgcca tagacatatt caatgggaaa aagcttgaag atattgttcc ttcacacac 360  
 aactgtgaca ttccgcattg gaaccgtact gagtatcagc tgattgatat ttctgaagat 420  
 ggatttgtga gccttcttac ttc 443

<210> 39546  
 <211> 330  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-H6

<400> 39546

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ccctttattg atgggattag gaggaattcc tgccaccaag gacaacggga tttgccattt 120  
tggcgctgtc tggacttaac actgaagctg ctgatctttc tcttgactg gtaatagata 180  
ggtttatacc tggaattaat cgaataccat attttttttt gaaacacata ctaatttatt 240  
tgctttctat accattgaaa ttttgtcatg tattgttggt ggaagtacta ttgtgctttg 300  
aaggaattga aagactttga taaagaaaac 330

<210> 39547

<211> 155

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-H8

<400> 39547

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gggaaaaaaaa gggcggacaa tatggagaga tccatgctaa catacccatc catgcaacgg 120  
gatcgccgtt ctatagggcc ccctaaattc aatcg 155

<210> 39548

<211> 325

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-046-Q1-K1-D5

<400> 39548

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ccagtccatg gttgatcagc tgagcatttt gcatattcat tcccttcttg cagttctgtg 120  
aatagcgagg gtgtgtgctt cattggaagt tgaatcgctc gaagtgtcat ggtttatcgt 180  
ttccggagta gacatccatt ttgtttttca gcttgctcgc gggcatgcc a tgtatatttg 240  
cttggatttg tgttcttggt taaaatttcc agtcttggtg atattggatt tgtttgctgc 300  
tggagatctt angattgttg caata 325

<210> 39549  
 <211> 341  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-A5

<400> 39549

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 atctactctc aaacatatca ctgagttctc acccaggacc tactactcct ggatatgaca 180  
 cactaacact ccactaacg tctatagtgc acctcagagc attggatata gccctgaccg 240  
 tgccaagtac ttcatgaat actctgagca taatgaatca tacctgaccg gtgaattaca 300  
 tggtgactac ggatggaaca ctcatgaact atcacctgac c 341

<210> 39550  
 <211> 414  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-B6

<400> 39550

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 agtcatagaa ggcagcggct gacacgcaa agaaggccgc tgctgctggg accaagcgca 180  
 aagtgccga gaagaacgtc gtggcgaagc cgaagaagtt ctccgtcgcc aaggccaatg 240  
 ccaagcccaa gaccctgaaa tgcctgcct acaagaaggc acggaaggcc tccgcatgag 300  
 atgggttgct ttaggtctaa gctctgattg atgctggtgt cagctaggta ctgtacaaac 360  
 tatgtgtgtg cccaaagtgt ctcatgcggt gtgctatgtg cttaagaagt tcta 414

<210> 39551  
 <211> 145  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-C5



<400> 39551

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attgtgcatt cacagaagat gtatcggaca ttcttaagtt tttgattttg tttctctgta 120  
acaatgtatc aaggcacgat ggtct 145

<210> 39552

<211> 173

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-C6

<400> 39552

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tagcacagcc tgcagctatt caccctattt gcctgccctc atgattttag agcaggcgaa 120  
tgctctaaaa tggatgatgat ggtgttctct ctatatcggt cactactagaa cat 173

<210> 39553

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-D3

<400> 39553

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ccgcctcagc cctcaaggct tttccttctc atcttcttct caggccgggg acgggcccga 120  
cggggacagg gacaaaaggt ggtgcatct tgttgggcac actccgcctc cgcgcgcggg 180  
aagagagaga gagagagaga gagagagaga gagaaggacg gagggtgga gggccgccgc 240  
gccggtgagc cgacccccag ccatggcatt gccggtccc cccgtccgcc tggcgtgct 300  
gctgctcgtc gcgctgccat tctgcgccgc gcatcccggg ccgggggect tcaacgtcc 360  
tcgccacttt cagacgcccc cgctccactc tgatggattt ggcttggtgg 410

<210> 39554

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-E12

<400> 39554

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aaatactgga agaagaacta cattctcccg ataacaagcc acttattgtg agagacggga 180  
acagatggct aatgcaggac atagattgta gcgggttggtg caagacgagg tgcactgcac 240  
attccatacc caacttggtg actaaggcgt gtggcacatg ctgagtgagg tgtaagtgtc 300  
tcccacctgg tacatctgga aatacgcaac tatgtggagc ttgctacact gatatgacta 360  
cccatggcaa cagaccaag tgccttaga gaaactaccc attgcgaaat gtgtgcttca 420  
ttgattatgc accgaacttc aagtgtacta gtatgt 456

<210> 39555

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-G5

<400> 39555

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cctcatctct tgcctccttt atctttctcc agatgcttat cttccgtctt ggatggactt 180  
aagtacgctc attcacatga atggctcaag caccaatgct cagtgcgcc cattgttattc 240  
actgaccatg cccagtacca tctttagag gttgcctatg tggagctgtc agaaccacat 300  
gacacagttt ccaacaagtc tggcttctga tcccgtaaa ctgttaaagc aacaagcgat 360  
ataaaccctt caatctcgca tgagatgcc tatgtcaaca aaaagcttac aaaaactcct 420  
tc 422

<210> 39556

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-A10

<400> 39556

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tatggcattg tctacgtcga ccgcaacaat aactgcacgc gctacatgaa ggagtctgcc 180  
aagtggttga aacagttcaa cgccgcgaag aagcccagca agaagattct tacgccagct 240  
tagaaaatcg gggcctcatg atgtgggtgc agcccataaa aaactggtgt gtggtttgga 300  
accgaaaatt ttctggcttt ttccgccacg agaggttctg gaggcatact ctccagcacc 360  
gtggctaata acgcattggt ccaattcagt ctggccttgt catgcatgca atatataaag 420  
tgatgg 426

<210> 39557

<211> 161

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-A7

<400> 39557

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aggggtctta tgcagatgga ttagggcctg tgttgcttgg gggcttcaca cttgctttaa 120  
taactgggtg catcctcctt ctggatgggc agagtcaatt c 161

<210> 39558

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-D2

<400> 39558

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catggccaac catgaggtac tcgtttcacg gagatggtat atgatatagg tgatcggagt 120  
gatattttac atggtgcata tagtaacttg tcgaactgag aatgttttac ctgtgatgta 180  
catcggactt ggaagctttg tatcattgat acaccttttc aatggtggcg aataaattta 240  
cagcagatgt tttcaataac ctttttaaaa aaaaaaaact gccttaagga ctaaagttac 300

catagaacaa atttaattaa aac

323

<210> 39559

<211> 90

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-E3

<400> 39559

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aaaaagaaaa gaattaaaag aaaaaaagag 90

<210> 39560

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-E7

<400> 39560

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gtgttcaccg acaatgcaca tgacgcgagc gtggtggtgg tgctggtccg gcgcacggag 180

cccttcaaca tgcgggactg gtccacggac gtaaacctgt cgtgggtggg catgggagag 240

ctggggccacg ttcacgtcgg ctctcctcaag gcgctggggc tgcaagagga ggacggcaag 300

gacgccacgc gggcggtccc caaagccgac cccaacggcg tcccgggcaa accgctggcc 360

tactacgcgc ttggcgagga agtccaaaag caactgcaga agcaccgaa cgccaacgtt 420

ctggtcaccg gccac 435

<210> 39561

<211> 227

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-F1

<400> 39561

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aacttaaacc aaaaaaaccc ttaatttact ttttttaaata cgtaaacttt ttttttaaaa 120  
gatccaaatt taaatactct tgcattctaa ttcaaaactc ttttataatg ccacctaaat 180  
ttaaattaat ggccctcatt ttaaaaaatt atgaatttta aaaacct 227

<210> 39562  
<211> 260  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 39562

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cgtagcctgt ataggttaaa cgtttgcttg tangtgatgg catatggatc gtcgtcata 120  
aaaaaaatct tacagaatat gttctagatt ttattggtga aaggaaaaat gttgcagatt 180  
taggtagttc aattagagac aatcgattca aagatcagaa aacaaggctg caggtagtgt 240  
ttggactttc attgactaca 260

<210> 39563  
<211> 428  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-049-Q1-K1-D11  
<400> 39563

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ggctgggcaa tgccgcgcca tctcgcgctg ctctgcccc tgctactgct ggcctcgccg 120  
gcggccacgc gcctggcgtc cgccgactgc gggggcgaga agttcccggc ggggcgtgcg 180  
tacgcgtcgt gcgaggacct gccgaagctg ggcgcgtcgc tgcactggac gtacgacgcg 240  
ttcaagagct ccctgtcggg ggcgttcgtg ggggcgcccc cggcggcggg cgcatgggtg 300  
gctgggggcc tgaacccgac gggcgaaggc atggccggcg cgcaagccct ggtggcgctg 360  
gcggaggccg gggccgcggc gcccgccgtg cggacgtaca acatcaaccg ggtacgtccc 420  
gctgggca 428

<210> 39564  
<211> 107  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-049-Q1-K1-D3

<400> 39564

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ttaaatttct aaaaaacaaa aaagaataag aaaagaggaa aaagggt 107

<210> 39565  
<211> 437  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-F4

<400> 39565

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atgttgatga agccaaacca agaggcgatg gccacgcgtg tgggtggtaga tctggtggcc 120  
gttctggtgg gagatttggg gaccgttctg gtggccggcg tgggtggtgg agatttgggtg 180  
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gcggccgaag acgtggtggc cgtggctttg gtaacaagca cagcgctggc acttccagtg 300  
caagaaagaa gactactttt ggtgatgatt gatgatgaac gcggaggatg cggcaaaagg 360  
atccaatgaa attgtgtttt tttggtcttg gttgggtacc gtaactggaa tttggtattt 420  
tttggtact atttact 437

<210> 39566  
<211> 308  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-G1

<400> 39566

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gttgctgtgt aaaaagatcc tcatggcttc cagaagacca tgaaggtttg gatctatcat 180  
gtaattcctt gttatctgcc aattatgtat ggactatgga catgtgttgc gctgttcaac 240  
tcactacaaa taagtaatcg atatattccc taaaaaaaaa aataaaaaaaaa atttaataaa 300  
taatataa 308

<210> 39567  
<211> 368  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-049-Q1-K1-H4  
<400> 39567

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atgctaagcg cacaaaggag ttccatttct gttcaactga ttttcctgaa ccagtaagt 180  
ctgtgcctta tacgttggcc actacctctt tgtctgcagc agcttctaca aaccaaactg 240  
gtgatgttcc catgtccagt acacctgctg ctgcttgttt gccctctggg aatgtgcata 300  
tgcataaagt cgttactact tatacaccgg tacctattac gcctgtcttg gctacaacta 360  
tacacttt 368

<210> 39568  
<211> 373  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-050-Q1-K1-C12  
<400> 39568

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cgggtgagtg acaaggctga gaaaattgaa ctctgctact atagcgtgga aaatgaagag 180  
caacaaggaa tggaaattaa cgggccggga ctcttccggg gtacaaggaa ggaacgtact 240  
ccatcagttc atggtgttac cgtagctcga cgaccgcggc agaatgtgcy gatgatgtcc 300  
tccggcaccg gcaccgtaca gcccgtggg aggagccatc gacatcgagg tgccggtgcc 360

ggcgcccgaa cca 373

<210> 39569  
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<213> Zea mays  
  
<223> Clone ID: LIB3069-050-Q1-K1-E12  
  
<400> 39569

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<211> 283  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-050-Q1-K1-F9  
  
<400> 39570

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gggtttacga ccgggcgggg gcggaattca tgccctccgga ttacaaggg ccgtcgggtga 120  
gcgcacccga cactgcgctg attgctgtgc tcgttcagca ctagacctta cctactgcta 180  
aaccaactac atcggcggcg tgccctgcaac catataacat atgtctttcc gaggcctctg 240  
gcgacgtcct cggaattcct aacactgacc gtatgccttc acg 283

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<211> 230  
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<213> Zea mays  
  
<223> Clone ID: LIB3069-050-Q1-K1-G5  
  
<400> 39571

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tggcgatgag tgtatgtatt gtgaaaggga tacgggatgt ggctagatac atgagttatc 180  
atgtctaaat ccacacgtat gatgatcatc cgggtttatg tacattcatg 230



<210> 39572  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3069-050-Q1-K1-H2  
  
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 cggagtctca acgatctcag ctatcagaga gttgtctcaa cggctctaac tatcaaagag 180  
 ttcatgccgc tatctagcaa ggctgctatg taactgaacg atatgaatat gggttgattt 240  
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 <212> DNA  
 <213> Zea mays  
  
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 ctcccatgt cgctccact cgagctcgac tacataggcc tctcgccgcc ggccggcagcc 180  
 gccgccgctg aaaacgacga actgaagggt actgagctcc gcctcgggct gccagggtcc 240  
 gggtcgccgg accgccgtgt cgaggctgcc accgcgacca ccctggacct gctcctggac 300  
 aagggcgcca agcgcggtt ttctgacgag gcgccccga catcgctgt tgccactgcc 360  
 ggaaagggaa agaaggtggc acatgaggag tacgacgaga agaacgtggc agcgaccccg 420  
 caaacggccg ccaaagcaca 440

<210> 39574  
 <211> 400  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations

<223> Clone ID: LIB3069-051-Q1-K1-F10

<400> 39574

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gttcttaaac cagaaatccc cccctttggg gtccttaagg gaccgcggga agaaccctaa 180  
aaaaacaaaa aaaaaaaaaa ggggggggcc cccaaaagaa accaagctta aggacccggg 240  
caggcgacaa aaaaactttt ctaaaagggg acccaaaaca aaaccaccgg ccgggggtttg 300  
acaaaccccg gagggggaaa acccggggga acccaaaaaa accccttgga gaagatcacc 360  
ttttgcaagt ggggacacaa aaaaaagccc cccaaacccc 400

<210> 39575

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-F4

<400> 39575

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gagcggcggg tgccaatgcc gaggtcatg aagcgtattg caaacgtct taaggattct 120  
cagaacacct ttgcaatgct gagtacattht aatgaagttg acatgaccaa tttgatgaag 180  
cttcgtttctg attataaaga tgaatttgtc acaaagcatg gtgtaaaatt gggctcttatg 240  
tcttgctttg tcaaggctgc tgtttctgca cttcaaaacc agccaattgt caatgctgtc 300  
attgatggtg atgacatcat atacagagac tacgtagaca tcagtgttgc tgttggcact 360  
tccaagggcc ttgtggttcc tggtatccga gatgctgata ccatgaactt tgctgacatt 420  
gagaaagga taaacaacct tg 442

<210> 39576

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-G3

<400> 39576

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ggtagccatt cgcggcgcaa agtacgcgtt tagaagacca aggaattgct ccgacagtaa 180  
ggaccttacc ggggtccttc acattttcca gaagaaagtg cacaacgcct ccagaggctg 240  
tgcacaaggt aatttaactg aatcaacagg ggttccttc ctaaaccggc ttactgggga 300  
tacacttcat aggtacctag aggatcaaaa cgttgcaa at gatccgtggc acggatttga 360  
agaaaggtag ctcaaggagg aagttaacag tcttataaat tcaactctca acgagcgca 420  
gagggacatt attcgattat atcatg 446

<210> 39577  
<211> 422  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-051-Q1-K1-H2  
<400> 39577

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cgcggggaacc ggctgtcggg cggggtgccg ccgctgccgg gcacgctgtc gtacctgtcg 180  
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acgttcctcg acctcggccg gaactggctg tcgggcgagg tcccgggcga ggtgttcgctg 300  
ttccgggcga tcgctacct gcagctgcgg aagaacgcct tctcgggcga gctccggccc 360  
gcggggcgcg tgccggcggg cgccacgggtg gacctgagcc acaacgcgt gtcggggcg 420  
gt 422

<210> 39578  
<211> 447  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3069-051-Q1-K1-H7  
<400> 39578

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ggaaatttac tggcgaaatc agtccagaat cagaagatgt cgatggaact tcactgtatc 120  
 aggcatcact aggccacctc agtattcgaa atactgacaa aaatacagag ttccctccag 180  
 cagaatcttg gataactgaa ggagattaca tctcgtgggc aaaatgctct aacggatctg 240  
 aactcgtgaa tctgaaaatc agctggaagc tgaagaacct tgatcaacca caaccaccat 300  
 tcagcaagta caatatctat gtggagaagt taacggcaga ttcagacttg aaagttccca 360  
 gtcccaaaag ctatcttgga gttgctagtgc tcgatgcctt ctatgtgtcg ggcttagagg 420  
 tctccaacga agtcaccggg ctgaaat 447

<210> 39579  
 <211> 432  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-052-Q1-K1-D10  
  
 <400> 39579

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 gcaggggaca tagagaagtt agagatgtca gcaacgccga ccacaacagt gtgtatttca 120  
 tcggtagagc aacagggagc tgcttcttta agtgccaaga ttaccaatgc ttctgtttct 180  
 gaaggacaga agaatecttg aaattatatg ccttctgccca tttcaattcc cgtggggagc 240  
 catgtttctgg gcctggggcg aacaagtatt gaagaaacaa ctgccactat gataactcag 300  
 gtcctgcag tttcaaaatc agaacgaaga aaacttccaa gaggcagtca acaaggattt 360  
 cagtttgaga gttcagcatc aaaaacaaag atgggtatcag ctgtggaacc agcacctgca 420  
 aatgttgaat gc 432

<210> 39580  
 <211> 403  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3069-052-Q1-K1-E11  
  
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gacgcttgcc ttgctgagga ccttgacagc aaggttgctt gcgagacctg caccaagacc 120  
aacatgggtca tgggtctttgg tgagatcacc accaaggcca atgtcgacta cgagaagatt 180  
gtcagggaga catgccgcaa cattggtttc gtgtogaacg atgtcgggct tgacgctgac 240  
cactgcaagg tgcttgtgaa cattgagcag cagtcccctg atattgctca ggggtgtgcac 300  
ggccacttca ccaagcgccc cgaggagatt ggagctgggtg accaggggca catgtttggg 360  
tatgcgactg actagacccc tgagctgatg cccctcaacc atg 403

<210> 39581

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-A4

<400> 39581

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gacaatgggt tccctgaagg ccgcgaatcc cagcggagtt gcggcgcagg gcaaggagcc 120  
ggcgcccaag ctacgagaga cggcgacgaa gccgtcagcc gcgaagagcg gcggcggttaa 180  
gaaggctgag cagaagcccc gggaaaccaa aaggaagggtg aagagcagca aaccggcggc 240  
ggcgggccaaa aagtgacgta cagtacagta cgtgtggagt gtaatggagc ttcccatgca 300  
tgagtgaatc catgccatgt tatgaatcta gtccttccct tcttgtatct tccatgtgac 360  
gcggcggtgtg cgtcccctca tgtgtgatga tgccagatga atacta 406

<210> 39582

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-B9

<400> 39582

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tgaggaacac agtgtataat cccatgatta atctccattt cgatcgctca tgtgggtgca 180  
gtacctcttc gactccggtg agcgcgtgcg tgcagacatc agttccctcc ttttgccttt 240

cttgagggct gctcttactt gcttgcacgc tgtttgatgg tatgcaagaa atggctgctt 300  
ggacc 305

<210> 39583  
<211> 305  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-D4

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gagatggaag aggttgaggg acagtctgaa gaagttatat ttgatcatct ccatgcaact 180  
gcattccaat atacatccct tggcagacca atcttggggt ctgcagataa cgtcaagtca 240  
atcaccaaag aagacctcga gaactacatt gcaactcatt atacagcttc taaaatgggt 300  
atcac 305

<210> 39584  
<211> 334  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-E6

<400> 39584

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ggcgcccgga ggaaaaacct gaaacttttt ttccctcttt ataataagaa cttaccgact 120  
gcttccatac catctgatag gaaaaacat caacctttgc tgtataaacc aacacttgat 180  
acaaaaaat ttcaagaacc aacctttctt tatcaggggtg ccaacaagt tccaaccag 240  
aaaacaaaac gggagatctt cttcaatttt taagaacctt atatttttcc acattcccg 300  
ggccttccca aaggcctgcc catgggtgaa cccc 334

<210> 39585  
<211> 86  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-G8

<400> 39585

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ctatttttaaa cggcggaggg gcccac 86

<210> 39586

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-A1

<400> 39586

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cagtattcctt ggtcttctct gcgaatggga ctgggcactc ctgtggcatg gctgagatgg 120

ctgctcctgt tgactatcac aaggacatgg acttctggtg tcaggataaa cggaccggct 180

gcttacctgt gagatggcac actgttaaag atataccgac tggttttttg cagcatatca 240

cactgcagaa taatgaaaac aagcctgtga ctcacagcag agatacacag gaaataccat 300

acctgcctgg aatatctgtg atcaagatct tcatagacct cagagtgagg gactgcctgt 360

ctgatgatgt tatgacatat gaggcagaac aggcgcaaat gaagccgcac ag 412

<210> 39587

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-E6

<400> 39587

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atggtactgt tggcttcatt gctggaatgc tggttataat caacctttac tgctctatat 120

tggctctttt ttggtttgca caaccagggg ggttggtttt ctgaatcaat caatccatct 180

cctcggacac aagataatct ttgtatgtta cacttcccaa aattgcaatt aattcagaag 240

tctgcctact ttcattcagt tagttctcag caaactgaa aggatatgaa tcagtcaacc 300

cgatagatgt ttatctgggt attccaaaca atctgacatc acatctgttt ctgcaggcga 360

gataaggaaa atctgaaatg ctatcaccat ttaaaacatt ggctcctgga agttcaggag 420  
tcgtttcttaa ac 432

<210> 39588  
<211> 344  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-F8

<400> 39588

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ataactatca tcgcatcggc atgccagggt gtatttcatg ttgataaccg gggaatgaga 180  
agacaacgat agtgtagagc tggtaaccat cacctagttt tttcttcttt ggtttacatg 240  
tataattatg cctcctgaca cctttttggg tttcagtgtg tcatatacca gtgtacaggt 300  
tcggacctga acattaattt aattgatagt ggtcttgtat gttt 344

<210> 39589  
<211> 278  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-A1

<400> 39589

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gaaaaagaat tggcataatg tgacatgctt gtacctgaag agcactatgg gaaagggtgta 180  
ccggctgttc taaattttcc aattaggctt agaattctca ggagactcta atgcttggac 240  
acttgccatt tttcctaaca ttcatttttt tgatccac 278

<210> 39590  
<211> 108  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-A4



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<210> 39591  
 <211> 83  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-H1

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 aagagagaaa aaaaaaaaaa aaa 83

<210> 39592  
 <211> 94  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-B6

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<210> 39593  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-D8

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 aaaagatggc tcgatggttt atcccgcata tgccgattca agcgactact ttagctatca 180  
 aaagcaaaac cacggtagta gagatagcct tggaactgca catttctatt aactggacat 240  
 gtataaatag ttctcgtgag cgcacaccat gtaatcgtcg aaattcatcc atgtgttgtg 300

acatttttttg agcacagttg aacatgtggt ggagcctgga agcaagtcaa aataaaaaaa 360  
atgtctgata atgctataag ataataactg ttaattaa 398

<210> 39594  
<211> 57  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
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<400> 39594

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<210> 39595  
<211> 166  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-056-Q1-K1-F3  
  
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ttgggtccgc gtttggaatt tgcgttttca atccggtatt gaaggtataa taattaacaa 120  
ctagtacggc ggcaacaaaa aaaagaaaag gacaaacctt gaaacc 166

<210> 39596  
<211> 411  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3069-056-Q1-K1-F5  
  
<400> 39596

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ctacaagtgc tgcaagcaga ctatcaagaa tagttactgt actggcttgg ctggaataga 180  
agctgccgaa gcatcagcag atctaataa ggccaatatg gctcgcaagg aggctgcaga 240  
agatgagcct gtacagcatg aagagaagcg attagccact tggggaaccg atgtgcctca 300  
ggatcttatt cttaacgaga agaagctcca ggaatctcta aagaaagaaa ctgcgaagag 360

gaaagaagag aaagatgaaa ggaagaggaa gtataacgtg aagtttaacg a 411

<210> 39597  
<211> 136  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-056-Q1-K1-G12

<400> 39597

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gtatttntgc taccct 136

<210> 39598  
<211> 369  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-G7

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gattggtctt tctggttggg ggcaaaactct tctgaaagtc tgagagtcga tgctgcagta 180  
cttgatcagt accttgttga tagtaciaaag aaactcaaga gcctcttccc aagttgggcc 240  
gggctgtttg tataaatatg gaatgcaagg tgccctttgt tgggtctgcc ggaaattatc 300  
cagaaaaaaaa aaaaaaaaaa aaaaaactaa tataaaaaaaaa aaaaaaaaaa agtaacaaaa 360  
ataaataaa 369

<210> 39599  
<211> 343  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-G8

<400> 39599

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cttgtgtgcc actgctatac tgtgatctga cctgagtggc tctatcgtg ttatgtttct 240  
gtcggttctt atctatctgt cgttctgtgg gctacaactt acgttgtacg actttattcc 300  
accgctatgc tactgggtta ttaagttttg gcgttatcgc ttt 343

<210> 39600  
<211> 443  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-056-Q1-K1-H6

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ccctgctgct cgccatggca tcttacagtc tctcgctcgg cccctgctcc tgtctttgct 180  
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gccatgaacg ccgtcgatcc cctgctgcag ttcctacaca tgggtctggtc gtcgaccgct 300  
cgcgtcacct gctcgtggnt atgtgaaacc agcgagcctg ttctcacggc gtagcttctt 360  
cgcgacatcg ttcagcccggt ggaggtacgt caattgatca cgtgatgtgg aagacaagga 420  
tcggattgat cttcagataa tgc 443

<210> 39601  
<211> 418  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-H7

<400> 39601  
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gtaggaggaa gcctcaccat cgtcccaata cctgacctgc tttcatcatg gctctggatg 120  
ttcggagcgg ccatagctgc agcagtgcct ctttacagaa ggttcagagc attagaagat 180

aacgtagaga agacggcgga agcggcgatc gaagtgatcg actcgggtggc ggaggcgacc 240  
gagaaggctcg ccgacgaggt tgcgcaagcg ttccccggca gtgaaactct caagcaggca 300  
gcctccaaga ttaagacgat cgcggatgag atcgaagaat atgccgacaa agctgatgcc 360  
ctgattgaaa aggttgacga gaataagaaa gaggtggatt caatcgtcga ccctatac 418

<210> 39602  
<211> 214  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3069-057-Q1-K1-G11

<400> 39602

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atcttagtag atatgtgctt actctcttgt taatTTTTTg tcttgagagg actatatata 120  
ctgataaagt gataatttat tcagagaata aaaaatgggc tccatgcttt gtctaaaana 180  
aaaaaaaaa cangctaaaa aaactaaata aaaa 214

<210> 39603  
<211> 380  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-H9

<400> 39603

cccacgcgtc cgtgaagttc cggaatgcag tggctaagga ctactacttc cagatgtact 60  
atgatgatct ccactgtgg ggcttcatcg gtaaagttga gaagggcggc aaggatgatc 120  
cgagcgagtg gaaatactat ctgtacaggc acatcatctt cgacatccta tacaacaacg 180  
accgggtgat cgaaatcaat gtgcacactg atcagagtgc attggttgac ctgacagatg 240  
ataaggagac caatgtggaa ttctgtact cagccaagtg gaaggagaca ccaacaccat 300  
tcgagaagag gatggagaag tacttcagct cttcaacat gccacaccac ctggaggttc 360  
attggttctc aattattaac 380

<210> 39604

<211> 375  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-G10

<400> 39604

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cttcaagacg tacggcgacc gggatgaagaa ctgggttcacc atcaacgagc cgaggatgat 120  
ggcccagcat ggctacggcg acggcttctt cccccccgcc agatgcaccg gctgccagtt 180  
cggcggcaac tccgccaccg agccgtacat cgccggccac cacctcctcc tcgcgcacgc 240  
tgccgctgtc aagctgtacc gcagcaagta caagggtcgt caggccggca agatcggcat 300  
cctgctggac ttcgtgtggg acgagccgct gaccaagtcc gtggaggacg agtacgcggc 360  
gcaccgggct cggat 375

<210> 39605  
<211> 384  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-G11

<400> 39605

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gatacgaccg ccagcgctcc cacagcgacc tgtaactgtg gagcaagtgg cgcttggtta 120  
gagcaggccg cettgtacat acttttgcaa aaacgaggtg tctgtacata ttgttcgtcg 180  
tgtcgtgtcg tgtcagagtg cctgatggca acgggctaata acgttcgtgc caacgtgtgc 240  
atggtatccc acggaccctg tggtagtaag gagcagttgt aaatatgccg tgcttcctct 300  
ccatgtggag tgctgctgta taaatagatt ggtgcattgc taaatacctc tgcttggaag 360  
aaaaaattta atataaaaag ggcg 384

<210> 39606  
<211> 419  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-G3

<400> 39606

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ttgctccgat gggcaaggac tcgaagccga aggacgccaa ggggaagggc aagcaggcgg 120

ccggctcctc tggcggcgac gacggcggcg gcaagggagg caagggcaag ggcaagggca 180

agggcggcaa gtccgctgac ggactcggca cttgcaccta cgtcaaagct aggcacgtat 240

tgtgtgagaa gcaggggaag atcaatgaag cttataagaa gttgcaggat ggatggctga 300

ataatgggga caaagttcct cctgctgagt ttgctaaggt agcacaagag tattctgaat 360

gcccacatg gaagaaaggt ggagatcttg gttggttccc gcgtggcaag atggctggt 419

<210> 39607

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-G4

<400> 39607

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gatcaggttc cccaagcgga atctcaaagc cccatctcca tccgcgccag cggcgtcgca 120

accgcgagac cagcacgga cctcatgtt ccggttaggg gctaaagcag aggcaccatc 180

ttctggagag attaaaaatt accgcttttag atctgatgtg ccttgcccac cttctcatac 240

tgccgtagga ggtccagctt cactccttcc taagcgcaaa cccctgactg aagaagagat 300

tgaggctatt atgctggggg gatccatctg atatcacctc atatgaattg gaaattctag 360

gaacatcaat aagattgtat gctgagctt attgcctttg acctctgaaa gagtgttatc 420

gaagccatgt cgatatgtaa gtgggttttt t 451

<210> 39608

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-G6

<400> 39608

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atcgctggga ggagtgcgt cgaagctgcc cagaacctgt tcccgactg ggagcttgag 120  
aaggggctca aattcctaga ggacaaggaa gcaaaatata ggagtctggc aaaagagcgc 180  
ttgggtgcctg tgaaaggcct cgcaagggtg gtccagtggg tgaaagacca ctggtacaag 240  
cgcgcgggcg tgaccaacgc ccccaggatc aacgcggagc tgatgatctc gctcctgggc 300  
ctctcggact tcttcaggc cgtcatcgtc ggaggcagc gcgagcagcc aaagcccgcg 360  
ccgtaccctt atctcatggc cctcaaggag ctccagggtg ccgcagagca cagcttcgtc 420  
ttcgaggatt cg 432

<210> 39609  
<211> 446  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-056-Q1-K1-G8

<400> 39609

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ctggaggatg gccgcaccct tgcggattac aacatccaga aggagagcac cctccacctg 120  
gtgctccgtc tcaggggtgg catgcagatc tttgtgaaga cactcactgg caagacaatc 180  
acccttgagg tggagtcttc ggataccatt gacaatgtca aggccaagat ccaggacaag 240  
gagggcatcc caccggacca gcagcgctc atcttcgccg gcaagcagct ggaggatggc 300  
cgcaccctgg cggactacaa catccagaag gagagcacc tncacctggt gctccgcctc 360  
atgggtggca tgcagatttt tgtgaagaca ttgactggca agaccatcac cttggagggtg 420  
gagagctctg acaccattga caatgt 446

<210> 39610  
<211> 338  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-H10

<400> 39610

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acttcgcgt catccacgag gaccttcacc catggcgcg cgttgtgggc tttaccgcgt 120



ccatgttcta tegtctcgc gtcattaca acttcctgct tttctgtcat ttgtgtcctt 180  
 tcttattatt gtgcattttt gttttctttt tttttgtttt acttttccca ttgttggtat 240  
 ttttatattt tttttttatt ttgttggttt tctttttttt ttatttttatt tttatatattt 300  
 ttttatgttt ttttttttat ttgttttctt tctttttt 338

<210> 39611  
 <211> 436  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-H3

<400> 39611

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 ctgctcgttc cagtaattaa gtcaagataa atgccaataa acaagttaag aaaaatgccca 120  
 tcatggagga catagttgtc caagagttac ttgatgattt ctaggacact ccttgggcta 180  
 gagctagcta taaagttaag cttgatgatt ttgattctga ttttgagtct gccctactaa 240  
 aacaagaatc atgacctaca tttcatttaa ttctgcatg cagacccatg atgttgtatt 300  
 aactattcca gtgtgcaatt catcatgttt cttatatctc cattctactg ctttaatgat 360  
 atgtctagca tgtgtaatat tcctaatacat ggttcatctc gaatcgattg catacaaaat 420  
 gattatgtac gtatga 436

<210> 39612  
 <211> 85  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-H4

<400> 39612

cggactcgtg gggggaaata ctttctaagt gtttattttt attttttact tatttcacgt 60  
 caatcaatgg aaaattatgc ttccg 85

<210> 39613  
 <211> 401  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-H7

<400> 39613

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ggctcggagc gctggggcgt tcgacatcat ccaccacacg gtttggggct acttcagcca 120  
gcgcacgggg ctgctcatcc agctcgaaga ctgcacactg ctccgcatga agtcgggcaa 180  
gggcgctcgc cgcacgcaga acatcttctg ggagaccagc atggagtccg tcctctccga 240  
ctaccgctac atcgacggca tcaacatcgc gcacggcggc cacaccaacg tcacgctctt 300  
ccgctacggc gagggatccg tctaccacaa gcggaagctg gaagagacat ggactgttga 360  
tgaggccgat ttcaacgtgc acggtctaac cacggactac t 401

<210> 39614

<211> 449

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-056-Q1-K1-H8

<400> 39614

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atgaggcagc gatccgtatg tcgtcctacg acttggcaag aagaaactta agacgagcgt 120  
gaagaagaga tctgtgaacc ccctctggca cgaggagcta actctgaccg tcacagatcc 180  
cagcctagct ctgaagctgg aggtgttcga caaggacacg ttcagcaggg acgacccgat 240  
gggggacgcg gagatcgacg tggcgccgct ggtggaggcg gcgaacgcga gcccgaggcg 300  
gagcctgagg aacggcgcca tcctcctgtc ggtgcggccg agcgccacga actgcctcgc 360  
cgacgagagc cacgtgtgct ggaggaacgg caagtctcgc catgacatga tcctnccgct 420  
catgaacgtg gagagcgggtg agattcatc 449

<210> 39615

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-E3

<400> 39615

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cgccatgtct gatcccccg gcgagacgga ccataaccat cgcgatggaa agcaccggcg 120

atcgcacctc caccacctga atgtgcaggt ccctcccgtc gccagcaaca ttggctgctt 180

cgccggctgc ttccgcccgt ccccgacatc atcgtcttcc cccgccgcgc acggcaccaa 240

ctgccacgga cacggacacg gacacggaca ccggcacgcg gaccggccgg cgttcccgtc 300

tctgatccgg tcgccgtcgg cgtggatcaa agcgaatggc cagagcctcg ggtctggcag 360

gcacgcgcgc cgtcggctcc aggacttcca gtacgacgcc cttagctacg cgcgtaactt 420

cgacgagggc tggagc 436

<210> 39616

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-E4

<400> 39616

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ttcttcgggg cccaggctgc tgccgectac atcagggggc ccaagttttc ctacttccta 120

ggaccctcgc ccggcgacga gcaccaccag cttggttcac tcccaacaaa atgtcagcca 180

atgtgggtga atcaactagc ggtgtcagca gcagcgatgc agctgggggg agcttttgagt 240

gcaacatatg cttcgagctg cctcaggagc caatagtgac tctctgtggc cacctcttct 300

gctggccgtg cctttaccgg tggctgcaca ttcacgcaca ctgccagag tgcccagtgt 360

gcaaggccct cgtggaggag gacaagctcg tcccccttta tgggcgtggc aaggatcgcg 420

tttacccgag gtcgaagaac atg 443

<210> 39617

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-E5

<400> 39617

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agctttgggtt attacagaac tttttggttag acttaaaggg tcctaatttg gcctttctac 120  
cattactttc atttgaaggc ggttcattgg agaaacatac ccaagttcaa gattggtaca 180  
ttaatatatg ctcgagtggg gaaagctaag agtatcatga atcccgagct ctcattgcatg 240  
gatggtagct ctttttagtct tcagctcaat gttcatgctc cttacttgat catgataact 300  
tcagaagtat ggcttaccaa attttattcg tcttatcata tttatcotta ttacctgtgc 360  
taacctgtga gcttg 375

<210> 39618  
<211> 439  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-056-Q1-K1-E6

<400> 39618

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actgttgttg aatttgcccc ggatatagta ccatcaatgg atggcgaggt caggaagcag 120  
ttccaacgca tgctagaaaa acagaaattc aagttcatgc tcaagacaaa ggttgttggg 180  
tgtgatacca gtggagatgg cgtaaagctg aactgggagc ctgcagctgg tggtcagcag 240  
accatccttg aagcagatgt tgttcttgtc tctgctggca gaagcccatt tacttctggg 300  
attgggcttg aaactcttgg tgttgagaca gacaaggctg gcaggatcct tgttgataag 360  
cgcttcatga ccaatgtgaa gggagtctat gcaatcgggtg atgccatccc tggcccccat 420  
gctgcccata nagctgaaa 439

<210> 39619  
<211> 444  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-F1

<400> 39619

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ggtgctcatc cgtctgcttg tgaagatatg gggtcagcag tatcagtagt tgaggctgct 120

gctcaciaag gactgctaca atgtattgat actgttatgt ctgaggttga aagattgttg 180  
tcttcagaac agaaggctac agattatcga acaccagatg atggagctgc accagatcat 240  
cggccaacta atgcttgtat aagaattgta gcctatctct ctctgtttct tgaggttgca 300  
ttcagtgcc ttgaaggcct caacaaacag tcctttttga ctgagctggg aaatcgcttg 360  
cataaggggc tgcttaataca ttggcagaag ttcacattta gtcccagtg tgccctacgg 420  
ttgaaacgtg acataactga atat 444

<210> 39620  
<211> 446  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-F3

<400> 39620

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ctggatcgtg agggacgggg gcctgatgct tctgctgtct cagctcctgc tcgccagaga 120  
cggcttcgag agctgcaaga tccaggtgtt ctgcatcgcg gaagagggca cggaagccga 180  
ggagctgaag gctgacgtca agaagttcct gtatgatctg aggatgagag ctgaggtcat 240  
cgttgtgacc atgaagtcga tggaagcgca ctctgagatc agccccaacg ctaagaagga 300  
tccccaggag gagtacgca ggcgccagga tagaatcaga gcgtacctgt cgcagatgaa 360  
ggaggatgag cagagggaag gtcggccatt gatggatgat ggcaggcagg tcgtggtcaa 420  
cgaagagaag gtcgagaagt tcctct 446

<210> 39621  
<211> 437  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-F5

<400> 39621

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cgtgcttgct gctgtgcctg ctgttgtctt actctgcggt ggtcagatcg aggaggaggc 180

cacctgaat ctgaatgcc tgaacaagct catcaccaag aagccatggt ccctgtcctt 240  
 ctccttcggc cgtgccctcc aggcgagcac cctcaaggcc tgagctggca aggtggagaa 300  
 cgtggagaag gctagagcgg ccttactcgc cagggtgcaag gccaaactccg aggttacatt 360  
 ctgcacctac aacggtgatg ctggcgtcga caccgatagc cttcacgtca aggactacaa 420  
 gtactgaatt gcttctc 437

<210> 39622  
 <211> 433  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-F7

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 cacagttcaa gacagaggag atgaccaaca tcatgaagga cttcgacgag cccgggttcc 180  
 ttgccccgac cggcctcttc ctggcccca ccaagtacat ggtcatccaa ggcgagccct 240  
 gcgctgtcat ccgcgggaag aagggatctg gaggcataac tgtgaagaag acagggcatg 300  
 cgatggtggt cggcatctac gacgagccca tgacccccgg tcagtgtctac atggtggtcg 360  
 agaggcctcg ggactacctt gtagagcaag ggccgtgaat ggatttaatt aacctcgctc 420  
 gcttgtgcat ggt 433

<210> 39623  
 <211> 406  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-F9

<400> 39623  
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 accactgatt gagcgagtct ctaggcaaac agagaacctc agttggctct tggatattct 180  
 agtaaacaat gacattgcag aagaatttgt agaactgtgg gcgaagcaag acaggctcat 240

taggatgcac gagcaagcgt cagcgatggc caggtatgag ctaagccgaa tatcagccgc 300  
 tgtgttcatt gcacttggt aaggaaaagt tcagtgtcgt ggcgatgtac gaagcctcgt 360  
 ctttcgtgga tggttcagca cgatgttggt gggatttggc tggcctt 406

<210> 39624

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-E12

<400> 39624

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 gagctcacgg cgcaggagac agcgtcttac gaccgccaga tccgcgtctg gggcgtcgat 180  
 gccagaaga gactaagtaa ggcgacgtg cttgtgtgtg gcatgaacgg aaccaccatc 240  
 gagttctgca agaattattg tctagctgga gttggaagtt tatccttgat ggatgataat 300  
 gtagtcacag aggaggatct gaatgcaaat ttcctaattc ctctgatga gagcatata 359

<210> 39625

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-C12

<400> 39625

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 ctccgacctg gaaacgatcc acgaggacgt cgtcaccagc gcgcaccaga agcgagccgc 180  
 gctcatcgtg ctcccccttc acaagctcca ccagatcgac ggccacatgg agtcgcttgg 240  
 cgaccagtac cagcacatca accagcgcgt gctccaccac gctccctgct ccgtaggcat 300  
 cctcgtcgac cgcggcctcg gcggtgtcgc tcaggtggcc gtcagcgacg tgtcatacac 360  
 catcgttgct atcttcttcg gtggccgcga cgaccgcgag gccct 405

<210> 39626  
 <211> 403  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-C2

<400> 39626

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 gattatggat cagataccat gatgggggtt aagcaaaagt ttaactcctt gaaggaaact 180  
 atcagacact tcagccttct accagcaggc ggtggtggaa tcctggcaca tactgttgct 240  
 cgagttgctt cttcaatcaa gattaaaggc gataactctg gagatggcat tgagtctctt 300  
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 gagcaagggt tacatggaac tgaagcagag gagatagcta ccg 403

<210> 39627  
 <211> 262  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-C3

<400> 39627

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 gcttgcgatg ggttcggtgc tccactttct ttttatgtga ttattaatct cgttttcaga 180  
 tgcattgtaca catgtatgtg cctgcaccat ttgggtcttgt gaaaacttga tcattgtatt 240  
 ccaatctcta gtgtagcaac ct 262

<210> 39628  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-056-Q1-K1-C5

<400> 39628



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 cccatatgat agtccaggcc acacgcgcac cctccggatc cttegttgtg aagcctgaga 300  
 gtgttcatgc tggagctaca ctggaagttc ctccgagga gatcctttca aagttgaagt 360  
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 <213> Zea mays  
 <223> Clone ID: LIB3075-056-Q1-K1-C6  
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 ccggcacctt cttcaccccg gagggcggtta gcctgctctg cactgccaaag gtcccatgca 240  
 ccggcgtcac catggatgac gtcaacgtcg agtatagcgg caccaacaac aagaccatgg 300  
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 agaccc 366

<210> 39630  
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ggtagcagttc ggcgtggagc gcggcatccc ggccatcttc gccgtgatgg gcacccagcg 180  
 cctaccgttc gtcgccaacg tctttgacgt cgtgcactgc gcgcgctgtc gcgtaccgtg 240  
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 <213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-D1

<400> 39631

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 actgggccca cgccgatctg cccatgctcg gcgttgctt catgggtgcc gacaagctct 180  
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 taatgcatgg ctt 253

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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-D10

<400> 39632

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 cacaccattg tgcatactta atgcatccta cgattcgtgg caagccaaga acgttctaac 180  
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<210> 39633  
 <211> 365  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-D12

<400> 39633

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 tcgagagtgg ctgggcgcgg gagctctcta ggctggagca attgctcgac ggagcaattc 180  
 cgtcgccgca gacccgtctc taaccgtggt tgagcttctg cgcgcacagt tcacggtact 240  
 tgatacatgt tgggaattag gggggtagca gcacgttcac tttcactttt acaattacgc 300  
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 ttttt 365

<210> 39634  
 <211> 300  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-D2

<400> 39634

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 gggttacgat gtcttgtgcg ccacccttcg gttgggccgt tgcagagtgg acagttgaca 180  
 ccggcccgtt agtgatgggg ggcaggggtc ggggattttc tcggtcggaa ccattgtttc 240  
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<210> 39635  
 <211> 270  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-D3

<400> 39635

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 accaccgcaa gagcgagatg gagatgaaga ggatcctctt cgccgtcctc gtcgtcatcg 180  
 ccgcctcggc caccgcagtg ctggccttca ccgaggccgt cgtcgcgggc gcccactg 240  
 cctccgagtc gtccgcctag gctcccgtg 270

<210> 39636  
<211> 113  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-D9

<400> 39636

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gatagatcct tgattgggct cgctacggca atgcttgcta ctagtaccgc tgg 113

<210> 39637  
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<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-056-Q1-K1-E1

<400> 39637

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tcggcgatca aggcgtggcc gtgctacgtg ggccgcttat cgtgggtgca gggccggcgg 120

gtctggcatg cgcggcgctg ctcaccatgt tatacattcc ctacgtgctc ctagagcgcg 180

acgtgtgcgt agcctcaatg tggcaccgtc gcacgtaccg cagggttggt ctgcacctac 240

ccaagcgcta ctgtgagctc ccgctcatgc actttccacg cacctacccc acatatccaa 300

cccggcagca gttccttgct tacctcaatg agtacatgcg cgcatntggc atcctgccat 360

ttttcagcct cgagggttgct gctgccgagt acaacggtga atactg 406

<210> 39638  
<211> 328  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-C11

<400> 39638

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cgttcttgga gaggttcgag cagctgctgc cagctgcgct cgaggacacg aagtgcgctg 180

tgctagggac gtcgacgttc gcatcggttct gaccgggcta cgcactgggc aatcactacc 240  
gacaccattt gcatgcatac atgctgagtg gctgctgtgc gtggattcaa aataatacac 300  
gtgtgcatgg tttcttacta gggaccta 328

<210> 39639  
<211> 78  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-056-Q1-K1-E10  
<400> 39639

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ctggattctc aaggacgc 78

<210> 39640  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-056-Q1-K1-E11  
<400> 39640

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tgccgcccgg cctcaacatt accaccaact acaacggcaa gtggctcacc gccagggcca 180  
cctggtacgg tcagcccaac ggtgccggcg ctcttgacaa cggcgggtgc tgcgggatca 240  
agaacgtgaa cctgccaccc tacagcggca tgactgcttg cggcaacgtt cccatcttta 300  
aagacggcaa gggcttttgc tcatgctacg aggtgtgatg caaggaaaaa 350

<210> 39641  
<211> 437  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3075-056-Q1-K1-A6  
<400> 39641

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 ggtcggttcgg ggcggtggga aatgtattta gaccaaggat cgggaggcgg aaccgtcgcc 180  
 agcctcctgg agtgcacgtc ctgcaccctc agacaagacc cggcggtgg atggagatgg 240  
 agatgggtga gttcaggaac gaggaagctg aagatggcga ggtgtccgtc agcctcatgg 300  
 agaccagggg cggcaactgg aagagaggtc ttactgtgca tggcattgag atcagggtca 360  
 agaagtaagg atgtgaaggc tgtgngatc gggctttgcg catcaaaaca tataaaagta 420  
 tcttagttag atttggt 437

<210> 39642  
 <211> 446  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-A7

<400> 39642

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 agtcatccaa gaaaacaaac ctctcaagcc agaaacttag agctctctct tccatctcca 180  
 ctgcaaaaaa ccatcatgga gaagggtggtc aagcgaaggc aaattggcac aatgacatat 240  
 ttggtggttt aatcggatca gaaggagcag ttcctctagt gacatgtgtc ccaacgaagg 300  
 ttgtgttcac taggatattg gaagcagttg gaaggccacc tctgtctgcc gtcgccgtg 360  
 ttagaatggc tagtcctccg gtacgagatc ctccataggc ttcaactgta gtgctacatg 420  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-A9

<400> 39643

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atcgacatga agtactgccc caacaagtta tgcaccgcca atggtgcctc caaggtcacc 180  
gtcaaggacg tcaccttcaa gaacatcacc ggcacctcct ccaccccgga ggccgtcaac 240  
ctgctctgct ctgccaagat cccatgcacc ggcgtcacca tggacgacgt caacatcaag 300  
tacagtggca ccaacaacaa gaccatggcc gtatgcaaga acgctaaggg cagcgccaag 360  
ggttgcctca aggagctcgc atgcttctag aaccaccatc gacccatctc tctagttata 420  
caatgtgttt g 431

<210> 39644  
<211> 327  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-B10

<400> 39644

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gatgtgcgag atcgagggcc accacctcgc ggcggcggcc atcgtcggcc acgacggtgc 180  
cgctggggcg cagagcacgg cgttccccga gttcaagacc gaggacatgg ccaacatcat 240  
gaaggacttc gacgagccag ggcaccttgc gccgacaggc ctgttccttg gacctacaa 300  
gtacatggtc attcaaggcg agcctgg 327

<210> 39645  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-B11

<400> 39645

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cctttaatca tattaaatct acaaattgcc agtctcatat atcaaaacgt attgacatgg 180  
ttgtatatgc ttactgaatg gccttttggg gcta 215

<210> 39646  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-B3

<400> 39646

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 gccgcacga tttgtctttc agggagtcca tgacattttc cagggatctc ctgagagaat 180  
 gtgggagcca aatgagccgc gcatcaacaa gattgtcttc atcggcagga acctcaataa 240  
 agaagagctg gataaggggt tcaaggattg cctactgaag aaatagagtg atttcagaat 300  
 agtcgggata tagatctcca gttttggcct tcttcgaatg tagtcagatt cacatcaatt 360  
 catatctgtt ggagtggatt gaagacagtg aagcttgaac taaattctac cccaattcat 420  
 ccgacatatg taga 434

<210> 39647  
 <211> 215  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-B4

<400> 39647

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 actgcatccc cggacatctg ccatgggagg taaccccgga cggcgtccag catctcgact 120  
 gaccaatagg acgtgccggg aagacgatcc tcgatattcg tacacacggt tcctcttgga 180  
 ataagactca catgcgggac catcattgac aagct 215

<210> 39648  
 <211> 375  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-B5

<400> 39648



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ttatctctcc gtgatcgacc cgcttcacca gatcactcaa gcacatccag ttcaacagtg 180  
cctcacatct ttatccgctg tctgcagata tttacaatgc tttgatgttc agcgggtctac 240  
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aattatgtat agatt 375

<210> 39649  
<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-B6

<400> 39649

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cagtggacca cgtgaggatg ccaccgctat tggttcagct ggtgtttgtga gaaggcaggc 180  
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cagggagagc gctttcagga acatcaaaac cattgctgag tgccttgagc atgagttgat 300  
caacgctgcc aagggtctct ccaacagcta cgccatcaag aagaaggacg agattgagcg 360  
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<211> 400  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-B7

<400> 39650

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ttgcgcccag aagacctaata cagcattgac gccaaaggact caccggactg gcgctcgctt 180  
 gtttccaggt acaggcagat gaggcaactg gccatggtgt acatgctgct tggacccgtg 240  
 cagtttatgg atgaagacga agttgacttg cagatgtaag ctttgttttc cctgaaccgg 300  
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<223> Clone ID: LIB3075-056-Q1-K1-B8

<400> 39651

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 ttgaaagaca gcagggttgc atcccacaat gtcagctccc aacagtgata gcaacatgca 360  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-B9

<400> 39652

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 accatcgtcc gtggaagccg ttcattggctg tggttggagt caagtgccta tgcgcgggg 180  
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catgagctcg ttgaaggtaa attgtgccct tgatcacttc tatttaccca ataatgttcc 360  
tgттаатсат tatgacctgc ataggttaat tttgatggta cccaatatgt caccccagtt 420  
tggctatcct tttc 434

<210> 39653  
<211> 303  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-056-Q1-K1-C10  
<400> 39653

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cggтacaagg acgagaagga cgтcacggac atcaacgtca aggatcgcac tcttaagaag 180  
acgatgttcg gcgtccgcat caaggcgтac gaggactccg acttcgtgct caccgttttc 240  
aagatccact actagaatat таagatggag gacttatcca accccatctt catcgacatg 300  
aat 303

<210> 39654  
<211> 152  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-055-Q1-K1-G7  
<400> 39654

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ctagccaagg gtccgaagcc atgagatcgc gcccgttgcc aaagataacc gtgcccggcc 120  
ctgaaaaggt cggcctgcaa ggcccctgat ct 152

<210> 39655  
<211> 298  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-055-Q1-K1-G8

<400> 39655

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acatgaacac gcaggacacc atcggcgcgg cgcagcgggc catcacgttc aaggacaccg 180

gcaccgcaa gatcatgctg cagctcgccg tacaggactt cgactcgtgc gaccgtctct 240

tcactcatgc cggcgcccc aaccccatgg ggaagtttga caaggtgctc aatcagat 298

<210> 39656

<211> 209

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-H10

<400> 39656

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tcagccgcca agaagagctc gagaggcaat ggccaccgca cggaaggatc ctaagcagggt 120

tgataaagtc aacctgaaac ccaacgagtc tcacaaaggg gtagtacggc atgcaagagt 180

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<210> 39657

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-H11

<400> 39657

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catcccactc agtgcttgca gccatggcta ggggattgaa gaagcacttg aagaggctca 120

atgcgcccaa gcattggatg ctgcacaagc ttggcgagc ttttgcctcc aagccatctt 180

ctggacctca caagttcagg gagtgccttc ctttgatcct catcatcagg aacaggctca 240

agtatgctct gaactaccgt gaggtcattt ctatcctgat gcaacgccat gtacttgttg 300

atgccaaggt caggactgac acgacctacc ctgttgggtt atggatgtca tttccatcct 360

taagacattg gagaactaca ggctgctt 388

<210> 39658  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-055-Q1-K1-H12  
  
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<210> 39659  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
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 tcgaccgcca ctactgcggc aagtgcggcc tcacctacgt ctacaatcag aaggcgtaat 240  
 cccatgcgcc gctttgcttc acccgccctac ctatcaagca ttcacctgtt gggttactcga 300  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3075-055-Q1-K1-H4  
  
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aaggtgcacg agatgcgtct gagatcttcc ggtacataga ccatgtccga acatatecta 120  
ccataatggt tggaggaatt gagggctctc aagtctgcac tgtggccttt cagcgggtgt 180  
gactgaaagc tgaggcacac atagttcttg gcctgacgtg tcacgttggg tccagaagaa 240  
atggataaaa aattttgtgc ttcgcctgtg ggactgttcc taccgtatta aggaacagtc 300  
caaactgtgt cttcttctgt tgtagctca tctatccagg atggctgtgt aattttagat 360  
ggaccagact atgagacgaa tc 382

<210> 39661  
<211> 190  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-H6

<400> 39661

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aaggtgcacg agatgcgtct gagatcttac ggatcataga ccatgtccga acatatecta 120  
ccataatggt tggaggaatt gaagtctctg aagcttgcac tgttgccttt tagctattgt 180  
tacttaaagc 190

<210> 39662  
<211> 372  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-H7

<400> 39662

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gccgctgctt gggctcctta gcttccatca accttccgga aaaggccaag gattccgttc 180  
cagcttaatt gatccatact aatataaggt aataccaata ccataatgca caatcctttg 240  
agcttccaaa ggcaattttt cccgggtcgg cacaagttcc ggggaccgga ttaataacgg 300  
ttattaacaa accttggggg cccctggatt aaccggtacc tttgaaattg gaatggaatt 360

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372

<210> 39663  
<211> 371  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-H8

<400> 39663

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gccgccgcgc ccgggttctc gatcgggcta ctcccttccc ttcacttccc ttccttacct 120  
gccgccgcgc cacacggtgc acgtggatgg gctgcaaggg gtccaagcac gcgctgcacg 180  
ggggctgtgg attggcggcg cgagcgccgg agccgcagag tcgctcgggc cgactggcgc 240  
cgcggcactc cgtggtcgcg ctgcggtcgt ccacgctcgg aacgctcagc ctcgaccgcg 300  
ccgtggcggc cgtcgcgga gcgggcctct ctttcgacgc tgcagcaaca ggaggaggag 360  
gaggaggagg a 371

<210> 39664  
<211> 237  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-H9

<400> 39664

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ctgccaagac aaaggtaatg gagtcgtcac gcatgttcca gccggccatc atcctgcttc 120  
tctgtctcat tgtgaccacc gatgtggcgc atgcggcgag ggaatgcgag aaggacagcg 180  
agcgattcct tgggtgcatgc atggcgtctg acaactgcgc caacgtgtgc cgcggtg 237

<210> 39665  
<211> 392  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-A11

<400> 39665

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 ggtggttgta gtggaccggc tattccacaa caaggtatac aaccgctacg tcaagcgcac 180  
 ctacaagttc atggcacacg acgatgacaa cacctgcaac attggcgacc gcgtttggct 240  
 ggatacttct aggcccttga tcatacacac gcactggggtt gttgctgaaa ttctccgcac 300  
 agcttaggtg tacgtttcac cagctgtaac agctgttcag tgaacgttgg agcaaatttt 360  
 aacaagcttg tggtgctacc aaatgatcca tt 392

<210> 39666

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-A12

<400> 39666

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 gccatccttg ctgcgctcgg ctgcggcgat tcgtgcgggc cccctaattgt gccacccggc 120  
 cccaacatca tcaccaacta caacggccag tggetcatcg ttagggccac ctggtactgt 180  
 cagtccaacc gtgcctgaac tcctgacaac cgcttttcta tgctggatca agaacgtgaa 240  
 tctgccaccc tacatcttta tgactgcatg cggtaacgtg cccatcttca atgactgcta 300  
 ggg 303

<210> 39667

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-A2

<400> 39667

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 gctcgcctac gtgcctagac ggtgaggcag cgacatcagg acgcccgtgc gcacgcgtgc 180  
 ctgcacggcg gctgtgcgcc ctcacgccg cttgccgaac ggcgtggcgg tggtgccatc 240



ctgcggggcg gcgtgggtgt cgcattgcta ttccgcccggc ggctgggcgg tcgtgcccatt 300  
gagtcggatc cacgtggctg cgcgcacgcg ctactgagct gcaaggcgat ggcgcccgc 360  
cgcaactctg gcttggtagt ggctgccagc ccacaacacc agagaggcgg tggctctattc 420  
ctgcttcgtc gt 432

<210> 39668  
<211> 404  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-055-Q1-K1-G6  
<400> 39668

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gtgcagggtgc aggtgctggc ggcgatggca ctagcatttc tggtaggcgg tgcctgggtgt 120  
ggtcctccca aggttcccc gggtgaagaac atcacagcca actatggttag tgattggcta 180  
gatgccaaagg caacatggta tggcaagcca acaggtgccg gcccgacga caatgggtggc 240  
ggatgtgggt acaaggacgt gaacaaggcc cctttcaaca gcatgggcgc atgtggcaac 300  
gtccacatct tcaaggatgg tctaggctgt ggatcctgct tcgagatcaa gtgcgacaag 360  
ccagcgtagt gctctggcaa gctcgtgggt gtgtacatta caga 404

<210> 39669  
<211> 194  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-056-Q1-K1-A3  
<400> 39669

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tgctgttgt atgccgcaaa tctacttttt ttcttggcaa cgtctcgttt cgcacgatcc 120  
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
aaaaaaatgg aaaa 194

<210> 39670  
<211> 192

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-055-Q1-K1-E8  
  
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 cctgcaggcg ctgtgcatga agcggtgccg ccgggagacg ggcgaggtgg ggccgttcgt 180  
 tctgtgggtg ct 192

<210> 39671  
 <211> 177  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-055-Q1-K1-F10  
  
 <400> 39671  
  
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 aacaacagcc atctcgcgaa aataatgaag agccgcagcc tggcatcatc ggccgagctc 120  
 ttggtgctag ccctcgcgct agtggcggcc accggctcac aggtagcagc tgcaaag 177

<210> 39672  
 <211> 75  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-055-Q1-K1-F11  
  
 <400> 39672  
  
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 gatttacctc aagcc 75

<210> 39673  
 <211> 223  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-055-Q1-K1-F12  
  
 <400> 39673

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tcaataatth agctatcacc atttgagagt ttcgtaaata tatgtactag tctatttgca 120  
taaattataa gagatggata tgctagataa caaatactag gctagcttat gtatcaacgc 180  
actcattata taattgacat atgctagtag atgtctcatt ttt 223

<210> 39674  
<211> 309  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-F2

<400> 39674

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gcggttctcat tcgggtcacg cgcacccaac gtcccttctc cctgtcctag gcttccttcg 120  
actttgctct ttttgacgat tttatttcgt cgagcagcac aggcattgat tagtttagact 180  
ggatgggtcag aacacgaggt gaaaacgggtg ccttcgtcgc ctttagcgcg cgacggcggtt 240  
tgatggctta cgcttctgca tcatgacctt ccaatagtag acgcccttta tcgtctcttt 300  
taactcgtc 309

<210> 39675  
<211> 393  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-F4

<400> 39675

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tcgggcgtcg ccggtatggt gatccgcagg ggttcttcgt acgccgtcgc ggcacttctc 120  
gcgctcgctt ctgtcgccgc cgtcgccggc gaggtattct tccaggagaa gttcgaagat 180  
ggctgggaaa gtcggtgggt caagtccgag tggaaaaagg acgataacat ggctgggtgaa 240  
tggaaccaca cctcggggaa atggaatgga gatgcagagg acaaagggtat tcaaacctcc 300  
gaggactaca ggttctatgc catttcagct gaataccctg aattcagcaa caaggataag 360  
accctgggtgc tgcagttctt tgggaagcac gag 393

<210> 39676  
<211> 305  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-F6

<400> 39676

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gcgctgagcc agtgagcgaa tacgtccaga gctgcgacat tgtcgccctc aacaagatct 120  
aaatttgctt gtgatggtgg caatggtggt tgggtgggcac tgtaccagcc taatttataa 180  
ttttgcatga gcatcatcaa gagtctttct aagttatcat ttgtagtcat tgacatagaa 240  
cgcactttct atatctgtgt aatatcatca acggatctat atcttgtag caccattttt 300  
agcta 305

<210> 39677  
<211> 148  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-F7

<400> 39677

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gctcctgctt gctgctggcg tggatagcgg tggcggcact ctttgtcgaa ggctcgtgtg 120  
gcggcgcgct caccttcacg atcggcaa 148

<210> 39678  
<211> 421  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-F8

<400> 39678

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caccatcaag cagatttttag ctcagcaggt aacctctccg gtgcaatggg aaaccactgt 180

taagaatctt atgggcaagg ggcttgagaa aagttatgaa ctcggaacctg gaaaggttat 240  
 agcaggtatt ctcaagagga tcaacaaagg cactagcatt gagaacatcg gggcttaaac 300  
 gtctgggata tgaagaactc ttgatggaac caagttacac agcagaagat tgaacatgc 360  
 cattattggg gaccatgttt tcacttagag gtaccggttt ttaccttag tgggtggaat 420  
 t 421

<210> 39679  
 <211> 254  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-F9

<400> 39679

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 aacaagcgac atgggcgtct acacctttgt gtgccgcaac aacggcgggcg agtggaccgc 120  
 caagcagcac tccggcgaga tcgaggcttc cgccgctacc ccatacgagc tgcagcgccg 180  
 cctcgtcgt ggcgcctccg cggccgactc tgcctacggc gtccagtcgt cctttttcat 240  
 ggtcactccc agct 254

<210> 39680  
 <211> 214  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-G1

<400> 39680

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 gccttcgcct acgggcgctg caacgtgcac cccaaccgcg ccgtcgaccc gggcctcgtg 180  
 tacgacgcca ggcccgacta ctactttaca ttcc 214

<210> 39681  
 <211> 254  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-G10

<400> 39681

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agataccatg cagtacatcg agtctgccgc caagatcaaa ggccggagaa ggaggacgaa 180  
agggtagga gtcagctatg ggatgctctt catgctggcg agtggcagat gacgacaacc 240  
ttggcaggag gaag 254

<210> 39682

<211> 197

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-G11

<400> 39682

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catcccactc aatgcttgca gccatggcta gggggttgaa gaagcacttg aagaggctca 120  
atgcgcccac gcattgcatg ctcgacaagc taggcggagc ttttactccc aaggcatctt 180  
ctggacctga caaatgc 197

<210> 39683

<211> 133

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-G12

<400> 39683

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aagggagcag cct 133

<210> 39684

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-G2

<400> 39684

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 tctcgccgcc ctgccccgag cgcaccgttt agaggccgcc aggtccggc acccccgccc 180  
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 cagggtgcy ctccttctc cgcgactacg acgcgtcca gtccctcgcc ctcgtactca 300  
 tctacctca gattggttgt gcactgatcg gatcacttgg ggcattgttc aatggggttc 360  
 ttgtgatcaa cctggtgatt ggtctattcg ctggtgttgc aattgagagc agtagccaga 420  
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<210> 39685

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-G3

<400> 39685

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 attcattaaa aaaatacaaa aatatcaaga acaaggaaac ccactatcag ctttaaggcag 180  
 acctgatcga gcacttgttg caaaaccatt ctgaggtata taaaattgat taatgtgcta 240  
 tttatttatt ttaatctact ttatgtaata agaacaaagt tgggeagtaa acatggttac 300  
 tgtttatttc caattcaatt gcctgcaatc aatgtgtgga gttaccgtgt cacaaaaggg 360  
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<210> 39686

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-G4

<400> 39686

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tcacctctac aacaactaca cgcgagctg gggcatctac gccgtctgcg caggcgtaga 180  
ggcccagatc gtgtcccagt gcaacatcta cgaggcaggt ggagggcccc caaagaagac 240  
aactgtattc aagtacatgc cggagaaggc cggcgaccga gaggacgtgg tggcagggtc 300  
gatcagctcg gaaggggacg ccttcctcaa tggcgcgctg ccctgcctga tcgataacct 360  
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<210> 39687

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-E6

<400> 39687

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cggcctactg ccgcaggcgc tgggtaaggg taggggaggc aggggacacg gtggcgccgt 120  
caaccgcgag gtcgccggca tctgctctcg caccctgttc ccggaggtgt gcacgttcac 180  
cgtcggggcg caccgctcca agtaccgggt catcgacaac ctggccgtgc tgaacatgca 240  
gggtggacgcg ttcgccaagc gcaccgcgca agcgcgcaag cacgttgcca ggtcggcccc 300  
caccatcccc ccgcagcaga cgcaagcgct cacgttctgc gacacatgt acatgaacac 360  
gc 362

<210> 39688

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-G5

<400> 39688

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ggggtcttcg tacgccgtcg cggcacttct cgcgtcgcgc tctgtcgccg ccgtcgcagg 180



ggaggtcttc ttccaggaga agttcgaaga tggctgggaa agtcggtggg tcaagtccaa 240  
 gtggaagaag gttgagaaca tggctggtga atggaaccac acttggggaa aatggaatgg 300  
 aaatgccaaag gccaaaggtt ttcaaacctc cgaggattac aggttctatg ccatttcagc 360  
 cgaataccct gagttcagca acaaggataa gaccctggtg 400

<210> 39689  
 <211> 431  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-055-Q1-K1-D11

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 aatgaagaga tcagtgaagca acctggccgt ctgcttgaag ttctcaattg tactgggtgc 180  
 cctaataatta agaaagtgtt tattcctttg atagcaaact tttcacatgt gtccaaaatt 240  
 aatcttaatc tttcaaccaa cttgaaggaa gtggattnga catgctccaa tcttttaacg 300  
 ttaaacttga gcaattgtag ctcaattgag gtgctgaagc ttgattgccc aagattgacc 360  
 aacctccaac ttttggcatg caccatgttg caagaggaag aattagaatc tgcaatatcc 420  
 ctttggtggg c 431

<210> 39690  
 <211> 356  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-055-Q1-K1-D12

<400> 39690

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 aagtcgtggc tctcctccac gctcggcggc acctncacct gcgaggacgc ctgcaaggac 180  
 ctgccaaga ccagcgacaa ggacgacgtc gtcaacttca gcctcgactt cgagaagctg 240

cagcgcgtca cgctcgacct catcaccgag gcgtccggca ccatgtccgc aggcacgcgc 300  
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<210> 39691  
 <211> 398  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-D3

<400> 39691

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 actgtttcac aggttcttac taatcaccag gaggataagg tgctcgacaa cactgaagtt 180  
 cctcaggcat caatctatag aaacttgttg attgaagcag aagcttcagc ttgtaaactc 240  
 aaatacgagc ttcaacatgc tctcctgaag ctcgagacag caaaaggcct caacgacaca 300  
 ataaaagccc ctgactcatt ggaagacagt aaaggctcta actcatacat tttcagtaac 360  
 aaaccacaga accatgggaa aggaaccggt acatgcgc 398

<210> 39692  
 <211> 203  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-D4

<400> 39692

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 tctaagcgta ctctcatcga ttacacccat catactattg aagattacca tcagggtactt 180  
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<210> 39693  
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 <213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-D6

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aaattccaga aaagctatat catccttccc acagggaaag agctgtggga tgcacttgtc 180  
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<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-D7

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agcacgagca tcacaaccag ctatagctcg gactggctgt acactcatgc gactttgtat 180  
gccaaagccga cggatgccag tctcgacgtt agccgctgct gttgtagctt caaggctctg 240  
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<210> 39695

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-D8

<400> 39695

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caccagcaac gagtcgctgg agaatgcctt cgcctcctac ggcgagatcc tcgactccaa 180  
ggtcacacc gaccgggaga cggggaggtc ttgcggcttc ggcttcgtta ccttcttctt 240  
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 ggagatgagc ccaagagAAC ggcagcagca atggctgaca agctggcatc tctgtcagcg 240  
 ccggtgcatg tcttgagctc catcttctca tctttcgtct gcacacactg cgcttcggta 300  
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 <213> Zea mays  
  
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 tacatgcccc taaatgcgta gttgaagact atgtgtttgc tcattttcat gcaactagaa 240  
 tggttcatac tcatgaggat tctcatgcac gggatcacct catatgagac aattaaatag 300  
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 tgaatagtgc ta 372

<210> 39698  
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 aagtgccagc cttacacttc acatgaactc ccacctttgg tgagttcatg catattattc 180  
 cccacaactt gttgagtgat gaacatgtgt gagctcacc ttgctatatc acaccccccc 240  
 ataagagaag aacaggtggt tcaagaggag ccacacattt aggagtttga ttcagtctag 300  
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<210> 39699  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-055-Q1-K1-E11  
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 ggtagcatgg aactaggctg gtacaccatt gtcgctcact aacactgcag gaagcgtctg 240  
 agcgattatc tcagattgca tgtactgact gccatacata cacctggagc tgcattacct 300  
 tggctcacga caggccctga taaccgctat gcatccctac ttaagtttgc cgtgctcttg 360  
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<210> 39700  
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 taatagtata tatgctgcgc ccggatgata tataaatatg tgcacaaat gcgtgctggc 180  
 aacgcagga atgtgcttgc ctagctagct aattgttggg ttttttttct ttacttttct 240

tcatacctgt ctctctctct cggaggttta atttttcttc aggcattgtaa tataatgtga 300  
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<210> 39701  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-E2

<400> 39701

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 ttcgactact tcaggggcct cttctacgac atgggcaacg accccgaggg cggctactac 240  
 gccaggggcy ctgcgcgctc ggtgtgggag aacttcaagg acaaccgct gtctgacatc 300  
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 ccgctgggggt gggcgc 376

<210> 39702  
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<223> Clone ID: LIB3075-055-Q1-K1-E4

<400> 39702

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 cttgcagatc tggctccaac ccaccccatc aggcttgccc ttgctctcaa cttctcagtg 180  
 ttctactacg agatcctgaa ctcccctgat cgcgcctgca accttgcaaa acaggccttc 240  
 gatgaggcga tctctgagct agacagcctg ggagaggagt cctacaagga cagcactctg 300  
 atcatgcagc ttctgcgcga caacttgacc ctatggactt tcgacacc 348

<210> 39703  
 <211> 359

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-055-Q1-K1-D10  
  
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 attgcgatga ctatggatca tgagccgccg caggagtgcg cgaccccggg gagcgtggag 180  
 gaggcgtgcc ggggcgcgtc ggagacgcac gccggcgtgg cctacgacca ctgcatggcg 240  
 tcgctgggcg ccgaccgcg cagcaaggag gccggcaaca agaacatgca cgcgctggcg 300  
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<210> 39704  
 <211> 354  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-055-Q1-K1-E5  
  
 <400> 39704  
  
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 attctttgtt gcaatatgat gtgtgtttgc ttatctacaa ggaaaatatg ataggcatat 180  
 tacatgcccc taaatgcgta gatgaagact atgtgtttgc tcattttcat gcaactagaa 240  
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<210> 39705  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-055-Q1-K1-B4  
  
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cggtacggtc ggcgccatgt ccaaggccag ggtctacgcc tgcatacaacg tgctgcgaca 180  
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 agttgtcacg aacgtcacga gaggaaaata cagtgaagta tttgaaggca ttaatggtaa 300  
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<210> 39706

<211> 180

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-B7

<400> 39706

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 cggtcgccga tacgagcgat ccacgaccc atcggcagcg gcagcggcag cggagcgggt 120  
 ggtggtctgc actgcactgc agccgcaagc ggcggcgcag tgcggaagga gtaggtgcgt 180

<210> 39707

<211> 145

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-B8

<400> 39707

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<210> 39708

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-B9

<400> 39708

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tggagtccctc tgacaccatt gacaacgtca aggccaagat ccaggacaag gagggcatcc 180  
cttcagacca gcagcggctc atctttgctg ggaagcagct tgaggacggg cgcacgcttg 240  
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<210> 39709

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-C1

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gctggtagtc ggcgaccgct ttaagagtga agcctcagct ctagacttca tgacacttgt 300  
aagtagcaca tttttggaac atttggtttt tattctatag gtcattgagct tggattgaca 360  
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<210> 39710

<211> 212

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-C10

<400> 39710

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actcattgcc gcgcctggag agagatgcga ttgagggaga ctgcggatgc ttttgtgcga 180  
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<210> 39711

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-C11

<400> 39711

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ttggcagcta gcttaacctg ttgtaatcct ccgattttac caagatggat tccggtgcct 360  
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<210> 39712

<211> 196

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-C12

<400> 39712

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tttggttttc tacactgctg agatgtgcaa gcgttttacc caggggggtgc actttacggg 180  
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<210> 39713

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-C2

<400> 39713

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agactcgcag gctgagttgc tacgacaatt atcagacttc actcaatgcc atcatagcat 180  
gaaagtgacg ctagtgatgc tgaccagcag cgagtgaata tagctgccga ggcaatatcg 240

taccgaccta ctactctgca tctacagcat ctggaacgcg tccaggattc aagggttgat 300  
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<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-C3

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gggacgagaa caactacgtg agcgtggccg ccgcctacga gaaggccgcg ggcgcggtca 180  
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cggagaacgc cttcagcgga accattgcct acggggacac gccc 344

<210> 39715  
<211> 258  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-C4

<400> 39715

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cctgtgctg cgtggccgcg cttgtcgtgt gcgtctgtcg tcgcgttgge gtcgtctctt 180  
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acagatcgtc cgaacgac 258

<210> 39716  
<211> 319  
<212> DNA  
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<223> Clone ID: LIB3075-055-Q1-K1-C6

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gagaccctg agggcaggaa ggccgtccag gctctcaagg atgtgtacgc tctactgggtt 180  
cccaggagaca ggatccttac caccaacctg tgggtctgtg agctcttcaa gctcgtggc 240  
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<210> 39717

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-C8

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cagagcatgg gcaacgcaga atcaggcgcc cgttctctgt tgctgaagta gaagcacttg 360  
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<210> 39718

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-C9

<400> 39718

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 ttgcaactac cacaaggggc ctgaacagct tgaccttcc ctcggcaagg gccaacgctt 360  
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<210> 39719  
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 cgctcccgtg tcatgaatgg tattgaccat gaggatgaag agtggtagt taaggcgacg 240  
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<210> 39720  
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 <213> Zea mays  
 <223> Clone ID: LIB3075-055-Q1-K1-B3  
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gtgactcact tggataacag gcagctgctg atcaaatcaa atccgggcga agttgtgaag 300  
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<210> 39721  
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 <212> DNA  
 <213> Zea mays  
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 gtgaaaaggc gacgctgcta tatatggcca tcacccttgg tttgtccgtt cgccagatat 180  
 cacgattatc atatttatcg gttgtaatat aagcttcttg tattagcata tggtttaata 240  
 ttttttttca gatgggatga ggtcctgctg gatatactat ctgtaaataa gaaggcacta 300  
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<210> 39722  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-054-Q1-K1-H8  
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 gaattatttc acaacttagg cgacgttagt gagaaaaggc gacgctgata tatatggcca 180  
 ttgtccttgg tttgtccgtt cgccagatat caccattatc atatttattg gatgttatat 240  
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<210> 39723  
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 <213> Zea mays  
  
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 cgtcaaccac ggcaagttta aggcggagcc gtggacggac gggcacgcga cgtactacgg 180  
 cgggcgcgac gggttaactg acaccacgga cggcggcgcg tgcggctaca agggcgagct 240  
 ggggaaagac tacggcacc ctgacggcggc cgtgggcccc tgcgtgtaca ccaacggcac 300  
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<210> 39724  
 <211> 358  
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 cccgatttgc taatgggtggc gcctaccgt cggaccttag tcttatcaca aaggcaaggc 180  
 acaatgggtca gaactatgtt ttcgctcttc ttactggata ccgtgatcca cctgctggtg 240  
 ttcagattcg tgagggctctg cactacaacc cctacttccc tgggtggtgcc atagccatgc 300  
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<210> 39725  
 <211> 319  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-055-Q1-K1-A2

<400> 39725

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cgctgcttgg ctccctagct ttcattcacct tccggaaaaa gtccaggaat ccgttgcgag 180

cctaattggat cataacttata ttatgggtatt acaattacat catgccacat cctctgagct 240

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catcaaacat ttgggggcc 319

<210> 39726

<211> 369

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-055-Q1-K1-A3

<400> 39726

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cggcgcctcc aagggtaccg tcaaggatgt caccttcaag aacatcacccg gcaccttctc 120

caccccgagg gccgatagcc tgctctgcac tgccaaggtc ccatgcaccg gcgtcaccat 180

ggatgacgtc aacgtcaggt atagcggcac caacaacaag accatggcta tatgcacgaa 240

cgccaagggc agcaccaagg gttgcctcaa ggagcttgca tgcttctaga cctnccatcg 300

actgacccat ctctgtagtt ataatttatc tctcgacctt gcattgcccc ttagatgcta 360

ttcattggt 369

<210> 39727

<211> 103

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-A4

<400> 39727

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gctgcacggg tctcgtcttt ccgataccag ctatgctgct gct 103



<210> 39728  
 <211> 388  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-A5

<400> 39728

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caagtgagat ttcgttctag gcatagtagt tgttgcaagc aatctgaata caggaagatg 180
agatcaggcc aattttgatt acaacatgac tactcttgca aatagaatgt tgatattagt 240
aaactattgt atgttatgca aggatcaaatt attgtaacgc agcacctgaa gttgcctaca 300
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taatattttt ttttgaaaac agcatatg 388
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 <211> 383  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 39729

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gccactgata aaccagaact acccgcttct gaaccagatg cagggtgttc accacctcgg 120
cggcagtcag cagccgtcgt tccaccagga cggcagcgcg gcggctttcg gtgacatcgt 180
ctcctctcgc ctgccgccac tgccaaccgc cagaacgcag gcggagctac attcgaacca 240
attcgacacc tncatcagcg gcgggctggt ggatcagtcg atgctgatcg gcgacgaaca 300
cctgctgcgg cctaaccgga gtatggtcaa ggtctcctcc atgcccgcg tctcctaccg 360
tgagccggat ggggtccagga tgc 383
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<210> 39730  
 <211> 330  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-A8

<400> 39730

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atcaaattca acgggtctct ttttacagaa aactaatata attagggatt atttggagga 180  
cataaatgag ataccaaagt cccgcatgtt ctggcctcga gagatatgga gtaaatatgc 240  
agataaactc gaggatctca aatatgacga aaataccgaa caggcagtac aatgcttgaa 300  
cgatatagtg acgaatgcac tgattcatgc 330

<210> 39731

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-A9

<400> 39731

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tgagaacaaa gaaaaccttt ccaaattatg ggatattcta gccgcgtatg catggattga 120  
caaagatgtt ggttactgcc aaggaatgag tgatttgtgc tcaccaatga tagttctact 180  
aaacgatgaa gcagatgcat tttgggtgctt tgagaaattg atgcgtatat tgcgaggaaa 240  
tttcagatgc acagatcaat ctgtgggagt tgccaactaa ctttaacacc ttgcttctat 300  
tattcaggtt cttgacccta agctacatga ccacctaaaa actcttgggtg gaggtgacta 360  
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<210> 39732

<211> 254

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-B1

<400> 39732

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ttggccgtaa tggacttcta ggagctgcac atactggcct agcagatggt gaagcacgag 120

gagccggaga ggcgcgagcaa gatgcttggc tgcattgcttg tagaggaacc ggacatccag 180  
gcaatgctgc atctcgcta cggcaactgc tcacaggtac accccaagat cagctacgct 240  
aaggccaatc tgga 254

<210> 39733  
<211> 167  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-B11

<400> 39733

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gctgagatga gggacagtga acagagttca gaggcgaaaa gtgcacctga ggaactggtt 120  
caacaggcgc tgagtgccgg atggagagag ggcctaaatt tggcatg 167

<210> 39734  
<211> 283  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-B12

<400> 39734

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cagccatggg tgctgtgca acgaagccta agacgcttga ggggaaagcc ccagctgagg 120  
ccaccatctc cacacccaag gttgcacctg agaccactgc catccacatt gaggttgagg 180  
cgaaacaggc agtagttgag aaggtggagg aggacaagga ggaggcacta acagtggcgg 240  
cgaaacaaga gccagcattc accatcgagc ctgaacagat tgc 283

<210> 39735  
<211> 348  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-H4

<400> 39735

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ccgttcgggtc cgacaggggtc caccaccacc accgccgctc cgaggcgctcg tgtccggcaa 120  
 cctccgcggc cgtggcgggcg gcgagggccg atgacgccct gcgccagcgc ccgcgggggc 180  
 tcgtgcaggt ccgggagcgg gaccagggcc cgctgtcgac ggggcaccag cacctgcacc 240  
 accatcacca ccagctgcgg cggtcggcgg cgttcccacc ccgccgaccg gggccggggc 300  
 gccgaccttc ttaacgctgc gaaagcgacc tcaacatcag ggagcacc 348

<210> 39736  
 <211> 257  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-G10

<400> 39736

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 ggagcgtacg aaccgatgca ctacctcatg agagatgaag ataatcacat acttaaggag 180  
 aagcactacg aggctgtacg tcaggtttaa aaacaagtcc atgaaggtaa ccagacagtt 240  
 gtggtgcttg gcacaca 257

<210> 39737  
 <211> 297  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-G11

<400> 39737

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 catttgcggt cctctcacat gtacgtact attcttccgg cggtcacat tcaaccctaa 180  
 tcgtttcact aggacttgat acacgtattc ttacgcttga ttgccgttat gcggacaacg 240  
 acagttatta tgccagagcg ctctttgcat attgcaaaaa gaatgttcta catctac 297

<210> 39738  
 <211> 333  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-G12

<400> 39738

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cagttgcgaa ggggtaagtg caagtacgag tccaagggtca ccttccacct tgaaaagggg 120

tgcgccccca actacctggc gctgctggtc aagtacgtcg atggcgacgg tgacattgtg 180

gcagtggacg tcaaggagaa gggctctgac acgtacgagc ccctaaagca ctgctggggc 240

gccatctgga ggaaggacag cgacaaaccg cttaaaggac ccctcaccgt acgacttact 300

accgagggag gcaccaagtc cgtctacgac gat 333

<210> 39739

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-G2

<400> 39739

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gctaccctct cagaaggtaa atcaaaagta caagagcgcc agcgggtccaa gctatcagaa 180

gaggctgtgg aggaagetga agacgccgtc tctgcaaagc gcctctcgga gcttgaggag 240

aaggtcattg cactcctgac aaaaccgca tcaatgcctg ctgataagga ggaggttctg 300

caggctgctg tctcccgct tagtgcactg gaagaggagc ttgcagctac aaagaagacc 360

ttgcaggaga ctcttgagcg tcagttggag atcgttgcat acattgagaa gaagaagaaa 420

agcaagcggt tctttcggtg gtaggagcaa acagcagtga a 461

<210> 39740

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-G3

<400> 39740

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acgcagggaa caagcgacat gggcgtctac acctttgcgt gccgcaacaa cggcggcgag 120  
tggaccgcca agcagcactc cggcgagatc gaggccttcg ccgctacccc atacgagctg 180  
cagcgccgcc tcgtcgctgc cgcctccgcg gacgactctg cctacggcgt ccagtcgtcc 240  
ttctccatgg tcacccccag ctccgcctg ttcagggtga tcgtcggtgc tgcgggtggt 300  
ggtgcaatga tggtagcgcg acgtggcgcc cggcgtgctg ctgcatctgg tggtagctgct 360  
gccgaggctc ccaaggagga gaagaaagaa gaggagaatg aagagagcga cgactacatg 420  
ggattctccc tgttcgacta g 441

<210> 39741  
<211> 295  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-054-Q1-K1-G7  
<400> 39741

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gagcatggga tgtacaatat tgaccacatg gatgtacttc ctgaagtctt caagcctggg 120  
cttatgtcaa agaagaccgc tcaagaagca agcaatttat tttcatgcta ggatgctatt 180  
ctgaaggacg agcctctatg gccagaggat atgtgggtact gtcctgggtg caaggaacac 240  
aggcaagcta gcaagaaact ggactcgagg aggttgcttg agatattggg agttc 295

<210> 39742  
<211> 277  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-054-Q1-K1-G8  
<400> 39742

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acgactacct gtttggtact gatgagaatg acgcgacatt gctgccgcac ttcggggagc 120  
gctactccat gatgccccgc cccatggcgc agtgtaccat cgtctagcgc ctaaccaact 180  
ctgttatgat gcacgggcgc aacaacggga agaattgcat ggtcgaccgc atcatgaaac 240

acaccctgga gatcatacac ctgctcactg acgceaa

277

<210> 39743

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-G9

<400> 39743

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gtcaatctct tagttgcaac tccaggcagg cttctggatc atctgcgaaa tactaaaagt 120

ttcaactaca aacggctaca gtgccttata attgatgaag ctgatcgcat acttgagcaa 180

aattttgaag aggatatgaa acaaataattt aaacgactcc ctcaggatag gcaaacagtt 240

cttttttctg ccacacagaa tcaaaagggtt gttgaatttg cgaattttac gtttgggcaa 300

aatgaagaaa gacaaaagaa acttggttat gttggagtcg atgattctaa attaaagcct 360

actgttgagg gcttgcagca aggttacttg gtcattccta agcagaaaag ggttc 415

<210> 39744

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-H10

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catactgggt ctccgatcga agagtgcgc ccgaagatct ggctgatgga ctccaagggc 120

ctgatcgtgg tgtcacggaa ggactcgtg caggcgttca agaagccatg ggcgcacgag 180

cacgagcccc tggcaaccct gctggaggcc gtgcagtccc tgaagccgac ggtgctgac 240

ggcacctcgg gcaagggc 258

<210> 39745

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-H11

<400> 39745

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tcatcataat ctaaattgat aaaacaaact gttgaaagta tctctgcata aaaagaagtt 120

ttttggcctg cacaacatct ctttgctgtg gatgcaagat attgacagga agatctagga 180

aggaagcaaa tctgatagct tctgagacaa ctgtagttga tatttatggg acttggttcta 240

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gctttgcgtg gaacttagtt tgagttctta cttcgatgcc atcaagg 347

<210> 39746

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-H12

<400> 39746

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ccggctggcc gggcgctccat cgaggaacca agctgctgct ggtgctaccg gacgacacca 120

accatgatac ggaggacgac agtgtgccta ggctgctgct ttctactact ggcggcgtcg 180

actgcgacgg cacatttctc gatcggcgac gtggacgagt acttgaacag ggcacgcag 240

gaagtccggc acaggaacca cggcgggtgcg cacatcaatg acctcatgtc cagtgtgcg 300

cgctttcacg ccaacgtgga tgcacgcgcg aat 333

<210> 39747

<211> 460

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-054-Q1-K1-H3

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cagcttaacc caatagcagc tgatgtactt cgaaaggagc ctgaacatga aaccttcagt 120

aaaatcaata tcacagctgt tgagactcct tctcctgatg aaattgaggc atacaaagtt 180

cttcagaaat gccttgagct gcgtcagagg tacatatcca gagaagaagt tgctccttgg 240



gaaaaagaga tcataactga tcctagtact ccaaagccta atccaaatcc gttcagttat 300  
gaacatcagg cttaaaccga tcaccatttc gaaatggttg atggccgtat tcatgtgtac 360  
cccaataaag attctaaaga aagactctat ccaggtgccg atgcaactac cttctttact 420  
gaaatgcact acgtnccttg tggggtggct gctggggata 460

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<211> 291  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-F9

<400> 39748

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cagtagacca gagtaatacg aagggtgata cagcgccgaa ggtgtgagca ggaaagcttc 120  
ggcgcgacaa caaaaagtga aaccgactta aagatgaaaa ggctatntag acctcgacag 180  
attactatag aattattacc aagtgtaaag ggcataaatg taattttgta tgggttgtgt 240  
tccgtgccta taaatatgtg atctagtcct ttgtacttgt tatgctgact t 291

<210> 39749  
<211> 367  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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tcctgctcat tgtgtccacc gatatggcac aggcaaggga atgcgagaag tacagtgagc 180  
gatttggttg ggcatacatg atcgagaca actgcgcaa tgtgtgccgc ggtgagggct 240  
tcttgcccg caggtgcagc accttcgcc gncgtgcat ctgcactagg cagtgcataa 300  
caagatcgct cgatcgctcg ccatacatcg acaacctatt cttaataacg gtcattatct 360  
cggtctt 367

<210> 39750  
<211> 469  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-E2

<400> 39750

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agggatccaa gcctggccac ctgacacctca cccccaatgt tgcaaccata tccgacgtgg 180  
agatcaaaga gcacgggggc gatgacttct cctttacgct caaggagggc ccgaccggca 240  
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agtccggtgg ctaccgcctc gctgacgacg tcattccgcg tgatttcaaa gccggcacca 360  
cctattagac cacacttagg atgtaatcaa gctttgatga tgaattatat ttcaaaagag 420  
cttacctggt gctcatggta gcaagaacat attttttcta tgggtattt 469

<210> 39751  
<211> 344  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-E3

<400> 39751

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acatgggctt ttagtctggc tgtcatctca tgtatcatta cccaaatgaa ttacttgaac 180  
aaggcacttg acacgtttta tacagcagtt gtgtcaccca tttattatac catgttcaca 240  
tctttaacta tcttggcacg tgtcatcatg gtcaagggca ctaaatagtg attgagccac 300  
tgtttcaaat tcaccttcaa atgggggactt ccttggattg catt 344

<210> 39752  
<211> 459  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-E5

<400> 39752

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gaaaatattg ggcacgcgact ctgagaagaa gaaagaagag aggaagcaga aggagcgagg 120  
agagaaggag cgagctagca gagcacaaaa catggcggca aactcgatcc gctgggtcat 180  
ggggcccacc ggaacagtta tttcgattcc acacgcagta ggccctccca gcatcttcga 240  
ctccaagcca cacagctatc ctctccacg ggagaaatgc gctggggccat cgtgcacgaa 300  
cgattacaag tacaggcact ccaagctgaa cctccccctc tgcagcctca agtgctacaa 360  
ggccgtccaa ggaaatgctt gatagggtc acggaacata atggtgggga ctggggagtt 420  
tgtgtgact ccattggcat gccatctatg gctggaaat 459

<210> 39753

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-E6

<400> 39753

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gatgctgcaa gaggggtgct tatgtatggt actaccggtat ctggcaagac catgcttgcc 180  
aaagcagatg cacatcatat cactgctgct tttatcaggg tcgaaagtgc atagtctgta 240  
caaaagtact tgggtgaggg ccctagaatg gtgcatgacg agtgtcgatt ggccaaggac 300  
aatgccccag caatcatctt cattgatgag gttgatgcta t 341

<210> 39754

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-E7

<400> 39754

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tgtgcgagat cgagggccac cacctgacct ccgctgccat agtctggcac gacggcgccg 120  
 cttggggcca gagcaccgca ttccacaga tgaagacaga ggagatgacc aacatcatga 180  
 atgacttoga cgagcccggg ttccttgccc cgaccggcct cttcctcggc cccaccaagt 240  
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 taactttga 309

<210> 39755  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-054-Q1-K1-E9

<400> 39755

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 gcgcccacca agtacaagtg cccttcttgt cgcacgcctt attgctctgt cacatgcttt 180  
 aaaaagcaca aagaggaatc ttgtcaaaag atattgcacg aggaagaaat tagcaagtca 240  
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 tgccctacaa aagctcttga agttgaggac ctaagctggc ttgttgacaa caatagacta 360  
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 at 422

<210> 39756  
 <211> 255  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-054-Q1-K1-F10

<400> 39756

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 ctgaccgtgc ttgcaagctt gcaaagcaag cttttgatga ggcaatctcc gagctagaca 180

gcctgagaga ggagtcctac agtgacagca ctctgatcat gcagctnctg cgtgacaact 240  
 ggacctatgg acttt 255

<210> 39757  
 <211> 349  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-054-Q1-K1-F11  
 <400> 39757

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 tggcgctgc acggcgtggc gcgcggcgct ctggcgcgct acctccgccg cgtgccggtg 180  
 cacttcgtcg acatcacggg gctgtcggag ctgcgcaagg acgcgcacac ctncgtgcac 240  
 acgctgcggc aggggaagct gctcacaccg gagcagcagg ccgaccccaa gacctacgcc 300  
 gactgcatcc actggtgcct nccgggactc cccgacacct ggaaccact 349

<210> 39758  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-054-Q1-K1-F12  
 <400> 39758

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 taaagcgaca tggatatggca agccgacggg tgccggtccc gatgacaacg gcggcggtg 180  
 cgggtacaag gacgtgaaca agccccctt caatagcatg ggcgcgtgcg gcaacatccc 240  
 catcttcaag gatggtctgg gttgtgggtc ctgctttgag atcaagtgcg ataagcctgt 300  
 ggagtgtccc ggcaagcccg tgggtgtgca cattacggac atgaactatg 350

<210> 39759  
 <211> 392  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-F2

<400> 39759

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tcgttgagaa gatagctcct ctagtgtggc tttcctctcg ttcagtcact gctttaaacc 180  
aaatttgata ccactcggtg aagtcaacaa ctgggatgtg gacatgtgaa accaaaaaaaa 240  
aaaaaaaaata aaaaaacaa acaaacaaaa aaataaaaaat aaataataaa aaacaataaa 300  
aaaaaaaaat ataacaaaat tttatattat aaaataaagg taaaaaccct aacaaaaaaaa 360  
aaaaggggg gcctttttaa aggatccaat tt 392

<210> 39760

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-F4

<400> 39760

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gagaacatca gtgaccggca tggatttcag gcataggcag tgatgttctc cctgttgaga 120  
attagcattg gtaaatgaat gctcgggtac aacgtgctaa atcctttgca tctggccaaa 180  
tttgtaaata agcactgggt gatgcccatc agtaaacaca tgatgctact gctgttaaac 240  
taaagtgggc aaatttcata atgctaggta ttgttctcgg t 281

<210> 39761

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-F5

<400> 39761

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ggggcagatt cagattcggg tccgtgggtc gctcggctag cctcgccggg gtcccaccgc 120  
ggcggtcggg gagcatggtg ggagggggga ggcggggagg agcggccgcg gaggaggtga 180

agctcaacac cggcaacgtg ttcgcggcgc tcgagtcctt caagaagaag aagaagggcg 240  
acaagggcag ggcggccggg ccgtcctcca ggaagaagca cggcgccggg gccgcgcagc 300  
agcagcagga gccgccgcag aaggatgtct tctgggctcc cgcgccgctc accaccaagt 360  
cctgggcaga cgtcggcgac gacgacgacc acgactact 399

<210> 39762  
<211> 411  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3075-054-Q1-K1-F7  
  
<400> 39762

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acatcaacaa aattgtgctg gctatatctc cagggttctt aaaggctaag cttctcaagg 120  
ctaaagcatt gctagcactg aaagactact gaagtgttat ttcagagacc ggattcattc 180  
taaaggaaga tgaagacaac ttggatgcac tgctattacg tggtcgtgcc tactattacc 240  
ttgctgatca tgatgtggcc tgcaggcact accagaaagg gcttcgtctt gatccagagc 300  
atttctaatt gaagaaagcg tatttcggct taaaaaatct tttgaagaag accaatagtg 360  
cataatataa tgcttgctag ggtaagcttc ctgtgtctgc tgaggactac a 411

<210> 39763  
<211> 356  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3075-054-Q1-K1-C2  
  
<400> 39763

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gttagcgctt gctctgggag atgagaacgc cgtcgccatg cccgtctcag cagctgccaa 120  
tgaggcgctt aagaaggcga ggagcctggg gctgggagac caggatTTTT cggcggtcta 180  
tgaggttgtg aagggcgcgg gtggttctgg atctggccag ccgtgataga aggaccattt 240  
gtgagttgtg actgtgttag cccatttcca tgccgatttg caacatagcg acgtacgagt 300  
acgtgtgtat tcaagatttg gaaccaggcc atacgttgca aaagataata ttaatc 356





<223> Clone ID: LIB3075-054-Q1-K1-C7

<400> 39766

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gcatgctcat ctctacacc tccaacacct tccccaccga ctatgttccg acagtgtttg 180  
ataacttcag tgccaacgtt gtggttgatg gtaacactgt caacctcggc ctctgggaca 240  
ctgcagggtca agaggattac aacagactga gaccactgag ctatcgtgga gctgatgttt 300  
ttcttctggc tttctcactg atcagtaagg ccagctatga gaatgtttcg aagaagtgga 360  
tacctgaact gaagcattat gcacctgggtg tgccaattat tctcgtaggg acaaagcttg 420  
atcttcgaga cgacaagcag ttctttgtgg acca 454

<210> 39767

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-C9

<400> 39767

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gccccgggaa gtggtcgccg gaggtgagga agacggcaac ctgctggaca cggtgagccg 120  
gcacacgatc caggtgtacc cgcgggtcatg gacggcaatc atgctgacgt tcgacaacgc 180  
gggcatgtgg agcgtgcatt ccaacatctg ggagcggtag tacctcgggtg agcagttcta 240  
catcagcgtc gtcttgccgg cgcgatcact gcgcgacgag tacaacatgc ccgacaacgc 300  
ccttcggtgc ggcattgg 318

<210> 39768

<211> 505

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-D1

<400> 39768

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gaccgacgcg ccggcagatc ccaagctcac cctagagggg gaagaggcg accgaaggcg 60  
gcgatgggtt tcatcatgga ctctcgagg aatctgatcc tccgtctgat ggaggacccg 120  
gacaagcgcg accaggttcg gcgggagcat gtctacaaga tgaaggagcg gtgcgagcgc 180  
actaaggcgg cgtggagcct ccctctgcgc ccctacggct tctggacctt cgaccgcttc 240  
aactcgcagc tctcctggga tccccagatc agccaggccg ncggccgtcg ggacccctac 300  
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<210> 39771

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-D3

<400> 39771

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ggaaactctg gttcggatca ccggtggcat gaagggtgaag gctgaccgtg acgagtcgtc 120  
accttacgct gctatgcttg ctgctcaaga cgtcgcacag cgctgcaagg agcttggtcat 180  
tactgcactg cacattaagc ttcgtgccac cggaggcaac aagaccaaga cccccggacc 240  
tggtgcccag tctgccctca gggcgcttgc tcgttctggg atgaaaatcg gacgcattga 300  
ggatgttacc ccggtcccca cggacagcac tcgcagaaa 339

<210> 39772

<211> 130

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-D4

<400> 39772

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ggaaactgtg gttcggatca ccggtggcat gaagggtgtag gctgaccgtg acgagtcaac 120  
accttacgct 130

<210> 39773

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-D5

<400> 39773

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gttatcatgt atacaagcgg aagtactggg cttcccaagg gtgtaatgat cacacatggc 180  
aacatggtgg ccacaactgc agcagtcatt acaatagtcc caaaacttgg catgaatgat 240  
gtttatctgg cttaccttcc attggctcat gtctttgaac tagcaggaga gactgtcatg 300  
ctagcttctg gtactgccat tggatatggg tcaacattga ctatgactga tacatcgaac 360  
aagattaaga aggggacaaa aggagatggt tctgtactga atcctactct tataatttca 420  
gttcctgcaa ctttggatcg tatcagagat gcagtgttt 459

<210> 39774

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-D9

<400> 39774

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catggcgccc agcagcagca tagcagtact gctgctctc gtcgtcgccg tcgtcctctc 120  
caacgtcccc tcctcggggc ccctggcctc ctcgtcgctg tctctgctgc accagtcgtc 180  
tccgtctgag agtgagactg agaccgacag tagcagcgga gaatcttcgt cgtcgtcgtc 240  
gtcggaggag gagggaggcg gcgagaagga gaaggagaag gagcaggaga tggagaaggc 300  
ggtcgcggcg gagaaggctg cccagcagga gctgctcaag tacgccaagg ggaaagggca 360  
tcgtgtcacc gaccaacggc acggcgtggg acaagggcaa tcgccgggag ttcgtggacg 420  
cccacaacga 430

<210> 39775

<211> 295

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-E10

<400> 39775

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cgggacgggc tcgagtttga tcgggagatg gctgacggga gctgctgcgt ctgcaaggag 120  
gcgccgtcca agtacaagtg cccttcttgt cgcacgcctt attgctctgt cacatgctgt 180  
aaaaagcaca gagaggaatc ttgtcaaaag atattgcacg atgaagaact tagcaaagga 240  
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<210> 39776

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-C12

<400> 39776

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gacatgcaca agggggggagg ggaaaacacg tacattcacc cggcgggaat aatggcctcg 120  
gttccgggtc cggcgacgac gaccgccgcc gtcacacctat gcctatgcgt cgacctctcc 180  
tgtgccggcg ctgacgaccc gaacctcccc gactacgtca tccagggccg cgtgtactgc 240  
gacacctgcc gcgccggggt cgtgaccaac gtcaccgagt acatcgcggg cgccaagggtg 300  
aggctggagt gcaagcactt cggcaccggc aagctcgagc gcgccatcga cggggtcacc 360  
gacgcgaccg gcacctacac catc 384

<210> 39777

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-A6

<400> 39777

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agcatgttct tccattctga atgttaatcg tgctcatcca tttgtattgt tggaccatcg 180

taagtatgtt tttccacaag gaacctttta cgggtgttag agtctgatta ttgtccttat 240  
aatgcctttc ttaataagct gtaccaatgg cgcgtctcac attttgtaga actcgtggaa 300  
attctcatgg agcaaagctc tatttgggat ctgatgtcga tgactaccaa ccccctttat 360  
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<210> 39778  
<211> 425  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-054-Q1-K1-A7

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gtggagcaag aactcctgca ccaagaagta cgactgcaag atcctttcca actcgtctgt 180  
gatggacttc gtgaacaacg gggaggtgtc cggggtcacg ctgctcaact acaagttctt 240  
ccacatgaac atgtaccggt gcaaggacat gctgatcaag gacgtgaccg tgacggcgcc 300  
cggggacagc cccaacacgg atggcatcca catgggagac tcacccggga tcacgatcac 360  
caacaccgtc attggcgctg gtgacgactg catctncatc gagcccggga cctccaaggt 420  
gaaca 425

<210> 39779  
<211> 201  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-A8

<400> 39779

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cgagaacgaa accctcaccg gaacaggcca aaccgaagaa gcacgaacac cgaaaacaag 180  
aaccacagca gaagaaaaca a 201

<210> 39780  
 <211> 288  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-054-Q1-K1-A9  
  
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 acctccgacc ccaagctgcc ttccatagtg ttcagcgtgc acgacgcgag caccctttac 180  
 cgcggtgctc aatggcgccg cgaaggatgt caatgactcg acccatacca gcgcatgat 240  
 caccaacgat ggaattgcc acaacccctg acaaagagta cgcaacgt 288

<210> 39781  
 <211> 409  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-054-Q1-K1-B11  
  
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 acatttttat tttcatatat aggtttttga tcatctcggc atgttaaaga agaagaaatg 240  
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 ggcgggcgcg tatggctacc ggcaaagaac tacctgatcc ccatggacgg agctggaacc 360  
 taatgcctgg caaacacact ggtgaacaca gtcattgttaa tcattggga 409

<210> 39782  
 <211> 385  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-054-Q1-K1-B2  
  
 <400> 39782

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 gaacttcggc tacgcggggc cggccagggtg caggcgctga cagctgccgc gtgcctggca 180  
 cttggcctgg gtggccctgc cgctgcctcc gacgttgctt tctgccgttt ggccagggca 240  
 tggctatccg tccaccacac gggcgacggt cacgccgtac gtgggtccgt cacatncacg 300  
 gcttctcccg cgccgtctgg cgtacgtggg gaccgtccaa gatgtcgtac gctgcgggag 360  
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<210> 39783  
 <211> 303  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-B3

<400> 39783

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 gaacatttgc tactcagggc cgtccaggag catgagcgga cagctgacgc gtgcctgaca 180  
 cttggcctgt gtggccctga cgctgcctac gacgttcact tctgccgcat ggccagagca 240  
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<210> 39784  
 <211> 408  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-B4

<400> 39784

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 agttgcaaag attgaagagc ttttccgtca agcagatata aatagtgatg gcatagttga 180  
 catagatgaa ctggcagccc tactggctgc tcaacaagaa gaagaaccac ttataagtaa 240



ctgccctgtc tgtggtgaag atcttggaat atatgataac ataatgata tgatacatat 300  
gacactttgc tttgatgagg gaactggtga tcagattatg actggaggga ttctaactga 360  
ccaacaagca ttttaagggg ggatgttcaa gctcagtga tgggcaca 408

<210> 39785

<211> 489

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-B5

<400> 39785

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agaggcagca tgaggcacga gggacaggcg acgccggcga gcgacacccg aaagacttga 180  
gcgtagaggc tgacgtgact gcacgagaca cgagcggtgg ctctagtgtc tactacagaa 240  
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tgatcttctc cgatctggcg tatctgggac gtccttcgac taagaccacc tacgatctgg 360  
aggcttcaga tgcagtagcc gaaccggagg ccttaggggtc gacatccaga gactgcctcc 420  
tatcgaactg tgtttatgtc taccatgata atgcgcaatg cctactattt acactattta 480  
tgcattcta 489

<210> 39786

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-B7

<400> 39786

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tgtgaagaaa acagggcagt cactcatcat tggcatctac gacgagccca tgactcccg 120  
gcagtgaac ctggtggtgg aaaggctggg cgactacctg ctgcaacagg ggatgtaaca 180  
acaaccctt cccctggaat gcatgttgat gatgttgctg gttccaactt cgttttcagt 240  
aataataaca acaaagcgaa gaccctccta cctaccctat ttgcttgagc ggctcttgtc 300

cgcgccacaa gatacctatt gttgcgctgg gaatattcag ttacgatgac cgcgtttagt 360  
 tcagtttttt ttattgtggg gttgggtcga tcatttgagc tgtacgtgaa tcggatggac 420  
 aacagactcc aattactaag caaatatttt tcttct 456

<210> 39787  
 <211> 359  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-C10

<400> 39787

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<210> 39788  
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<223> Clone ID: LIB3075-054-Q1-K1-C11

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 gccaccggc cgcgctcggc ccggcgctcc ccggtgacct tcagcctggg cgcgccgtcg 180  
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 aacataaggc gcatgcagcc gcgcaggcga cgcgctctct ggtgcgacgt gcggtctcgc 300  
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 <213> Zea mays  
  
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<210> 39792

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 <213> Zea mays  
  
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 cttgtttgta agcgcggaag catcactcag aaaacatcaa ataacgatgg tttaacaatc 180  
 atcccagagt atgattggaa gttattctct gaggagtgga gtgcgacgcc tggaaaaggt 240  
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<210> 39795

<211> 235

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-H3

<400> 39795

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ctcttagagt ttgggatgtg tttctttatg agggatttaa ggttgtattc caagttggat 180  
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<210> 39796

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-H4

<400> 39796

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caagaagggc tacatcccgc tcaccaccta ccttcgcacc tacaagatcg gcgattacgt 180  
cgatgtcaag gtgaacggcg ccgtccacaa ggggatgccg cacaagttct accacggccg 240  
caccggtcgc gtctggaacg tcaccaagcg cgccatcggc gtcgaggtca acaagcaggt 300  
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 <211> 222  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3075-053-Q1-K1-H6  
  
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 cgacgacttc aaggaggcct tcagcctctt cgacaaggac ggggatggct gcatgacgac 180  
 caaggagctg ggaactgtga tgcgatcact ggcgcaaaac cc 222

<210> 39798  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-053-Q1-K1-H8  
  
 <400> 39798  
  
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 aggcgaagaa catccaggac gacttctgct cgacgctgtg cgagggcaag aaggggacgg 180  
 acctggctgt gtgcaaggag tcctgcgctc tctcccagca gtccaacctg gtgctgtacg 240  
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 aggtctgcc aagaggagtgc gacaaggcgt acgttgtgaa ggcgggccgac gtcaccaaag 360  
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<210> 39799  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3075-053-Q1-K1-H9  
  
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 aagctgcgca aggcggggcat catcgacatg cagttccgaa gggttaagtg caagtacgac 240  
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 aagtacgtcc actgcgacgg tgacattggt gcaactggacg 340

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<223> Clone ID: LIB3075-054-Q1-K1-A1

<400> 39800

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 accaccaccg caggagcgag atggagatga agaggatcct cttcgccgtc ctcgtcgtca 180  
 tcgccgcctc ggccaccgca gtgctggcct ccaccgaggt cgccgcgcgc ggcgccccaa 240  
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 ccgtcgactc tgagccctac gacagcagcg gagcgccccg cctcatcgac gcacccgcag 360  
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<210> 39801  
 <211> 442  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-A2

<400> 39801

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 caaagtcccc ccaggcaaga acatcacggc cacctatggc aaggactggc tggacgctaa 180  
 agcgacatgg tatggcaagc cgacgggtgc cgggtcccgac gataacggtg gcggctgcgg 240  
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cttcaaggat ggtctgggtt gtgggtcctg cttcgagatc aagtgcgata agcctgtgga 360  
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<210> 39802  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-054-Q1-K1-A3  
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 gctcatggag aagaacaagc agtacgtcgt gcagcccccc accatcgaga aatgccagga 180  
 gctctccaag cagctcttct acaccgcct cgcaagccta ccaggtcggt atgagtcatt 240  
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<210> 39803  
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 <212> DNA  
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 <223> Clone ID: LIB3075-054-Q1-K1-A4  
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 gagccgatgg caagcccaga gccaggcccc gtcgaagagg acaacgcaga catgaacgcg 180  
 accaaggccc ttccagcgcc cgaggagcct gcggcggctg ccgcgcaaga ggaaagcaca 240  
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 gccgacttcc tgaacctcag cgctgacgcc atgt 334



<210> 39804  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-E7

<400> 39804

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<210> 39805  
 <211> 291  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-E8

<400> 39805

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 tatacgagag agatcgccat ttatatttga tcaagtatct ggctttctct ttgaaagggg 180  
 gctaaatgca gctgcaggat ccaaggaagt agaaccacca tttggctggc ctagactacc 240  
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<210> 39806  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-E9

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 agatggagat gatcaagagg atcctcatcg ccgcgctcct cgtagtcgcc gtctcggcca 180  
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<211> 386  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-F1

<400> 39807

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gagattctga actccccaga caaagcttgc aaccttgcaa agcagggcgtt tgatgaagct 300  
atctcccagt tagacaccct tggggaggag tcatacaaag atagcactct gatcatgcag 360  
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<211> 417  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-F11

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agctcttaaa caaactgtca agctttacta taagctgggg aaatacaaag aaatgatgga 360  
tgcatataga gagatgttaa catacataaa atctgcggtc acccggaact acagcga 417

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<211> 368  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-F12

<400> 39809

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gacgaccttc gccgtcatct tatccgtcct cttctgtgcc gcggttgga ccgccgtcga 180  
caacgacctc cccgactacg tcatccaggc ccgctctac tgcgacacct gccgcgcgg 240  
gttcgtgacc aatgtcaccg agtacatgc gggcgccaag gtgaggctgg agtgcaagca 300  
cttcggcacc ggcaagctcg agcgtccat cgacggggtg accgacgca acggcacgta 360  
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<210> 39810

<211> 248

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-F3

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atgaagtgtt tgttatttac gtgcatttgg aatgtttttt gatttctcat tattgatttt 180  
agatattgaa aattcacata actaatataa taattattag tctaaaaata aatattttac 240  
ttataaat 248

<210> 39811

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-F4

<400> 39811

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ttggccactt ggatgcgaat ggctgtatg atggtcactt cacaacgttt gctctctctg 240  
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 aggctgatat aaagcagtag attttacatc tagtttacca agatttggac accgccttaa 360  
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<210> 39812

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-F5

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 tgggtgctgat gaaagctcac tgttgaattg tgtaccgaaa gatgactttg gacgtggtca 180  
 tgcggatcct aaccttacct atgcacaaga gttgcttgaa cacatgggtc ttggaaagtc 240  
 atactcaaat gttgag 256

<210> 39813

<211> 212

<212> DNA

<213> Zea mays

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<400> 39813

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 cccctacgtc ttcttcggcc acggaaagca taaagggaat tcaagtttaa aataccgtac 180  
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<210> 39814

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-F8

<400> 39814

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acttggtgaa gatgaaatga tgggtgatcc tgcatactct attgctgtca tcatagagtt 180  
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<210> 39815

<211> 173

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-F9

<400> 39815

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tagcgtaaca ctaagcctag acgagaaaga caatatcaat ggggatgttc aca 173

<210> 39816

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-G1

<400> 39816

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cgtacagctg cagatatatg ctaggtagta acaaggctga tattcactcg aacaagctat 180  
tcaattgtac tgctgaggaa ccttcgactg gggagctttt caaaaggata cttatactgg 240  
cactttcact gtgtatagtt taagtacac tacctgcagt cgataagttg tgacgttcag 300  
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<210> 39817

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-G10

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ggcccagcat ggctacggcg acagctttctt gccctccgcc agatgcaccg gctgccagtt 180  
cggcggcaac tccgccaccg agccgtacat cgtcggccac cacctttctt tcgcgcacgc 240  
tgccgctgtc aagctgtacc gcagcaagtt caagggctgt caggccggcc agatcggcat 300  
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<210> 39818

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-G11

<400> 39818

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attcttaata acgttcatta tctcgttctt atttatgacg aatgtcatgt atgttctggt 180  
gactgtcatg tatattctga tgactgtcat gtatcttggt catgtatgct caaggttcat 240  
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<210> 39819

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-G2

<400> 39819

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gatggcgcgc ggcgtggtgt cggcgaaggg cggcgcggtc gcgggcaaga agaaggggtc 120  
ggtttctctt acgatcgact gcaccaagcc agtggaggac aagatcatgg aggtcgcctc 180  
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cgactccgtc accatc

256

<210> 39820  
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<223> Clone ID: LIB3075-053-Q1-K1-G3  
  
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tggcggccac cgccccacag gtagcggagg caaagaagaa gagagcggcg gagagcggcg 180  
aggcggcgga ggcgaagaag atccaggacg acttctgtct gacgctgtgc gagggcaaga 240  
aggggacgga cctggtcgtg tgcaaggagt cctgcgcgct ctcccagcag tccaacctgg 300  
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<210> 39821  
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<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3075-053-Q1-K1-G4  
  
<400> 39821

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ccggtccgac aggggtccagc accaccaccg ccgctccgag gcgtcgtgtc cggcaacctc 120  
cgcgggcgtg gcggcgggca gggccgatga cgccctgcgc cagcgcccgc gggggctcgt 180  
gcacgtccgg gagcgggacc agggcccgt gtcgacgggg caccagcacc tgcaccacca 240  
tcaccaccag ctgcggcggt cgggggcgtt cccaccccgt cgtccggggc cgggtgcgccg 300  
gccttctcag cgctgcgaaa gcgacctcaa ca 332

<210> 39822  
<211> 163  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3075-053-Q1-K1-E6

<400> 39822

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cagctggggg gaggcgatgt gcgttgtcag ataaagctta gtcttggtga ctctactaat 120

ctgatatcaa ttggtaacca attggttaaa aaaaaataa aaa 163

<210> 39823

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-G5

<400> 39823

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tgcaagaacg tgctgggcga caaagtgcag gtcaaggccc ccggcgacag cccaacacg 120

gacggcatcc acatcggcga cttcagcaac gtgaccatca gcagcaccac catcggcgtc 180

ggcgacgact gcatctacat cggacccggg agcaagatga tccgcatcca tggcgtaag 240

tgcgggccag gccacggcat cagcgtcggc agcctgcggc gc 282

<210> 39824

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-C7

<400> 39824

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gcttcaaagc ctgaaaggga accaggcaat tcgtcaaaca aaagagcaac ggataaaatg 120

gacgactttg gccacaagga tagtttctct gaagtgtcct atgaatactg tgtaagggtg 180

gtcacgtggc tggagtgtga gggctatatt gagacaaact tcacgatgaa gtttcttaca 240

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cttatcgagg accctgtcag tctc 324

<210> 39825

<211> 211



<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-053-Q1-K1-C8  
 <400> 39825  
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 gcgcacagcg cggtatggcg agcggcagca gcaacgggga gccaaagcacg gcaccgcatg 180  
 cgaaccgggtg gtacgacctc cggctggggt c 211

<210> 39826  
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 <223> Clone ID: LIB3075-053-Q1-K1-C9  
 <400> 39826  
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 ctctccaccg cgatgatcag gtacaactgc cacttcatta agcacaacta cgcaatgctc 120  
 ttaagcgcca ggtacatccg gcttcaacac cacaacat 158

<210> 39827  
 <211> 329  
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 <213> Zea mays  
 <223> Clone ID: LIB3075-053-Q1-K1-D1  
 <400> 39827  
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 atctcgacat tcagatccca actgccttcg atcccttcgc tgaggccaat gctggggact 180  
 ctggtgcggc agcaggggtca aaggactacg tacacgtgcg cattcagcag cgtaatggtc 240  
 gcaagagcct gaccaccgtc cagggattga agaattgagtt cagctacagc aagatcctca 300  
 tagatctcaa gaaagagttc tgctgcaat 329

<210> 39828  
 <211> 316  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-053-Q1-K1-D10  
  
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 gctccccgcc gctcctccgc cgcattccat ctctcttcct cctccgaacg cgccgtctac 180  
 ctctccctt tccccatggc ggcccatccc gtcttctttt ccacagcacc ttgccttcg 240  
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 ccccgctccgc gccctt 316

<210> 39829  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-053-Q1-K1-D11  
  
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 cgcgatcgct ctgtgctccg cctccgtccg tcaaggcctg ctcttgccgc gttcctctc 120  
 gcccaatccg ccaggttctc cgcggtgtgt tctgacgct gttgaggccc ggcgtgtgcg 180  
 ttgcatgcag gggatggcca cattcgagct ctaccggagg tccaccattg gcacctgcct 240  
 caccgagacg ctggacgagc tcgtctccag cggggccgct agcccggagc tcgccatcca 300  
 ggtccttggt cagttcgaca agtccatgac tg 332

<210> 39830  
 <211> 316  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-053-Q1-K1-D12  
  
 <400> 39830  
  
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cagaagctgc aatccttccc tggggatctt gatacccttg agcaagtaca ggtcaactat 120  
gaggttctgc ctgggtggca aagtgacatt tcttctgttc gaagatacga tgaacttccc 180  
caagctgccc gcctttatgt ggagaggata gaagaacttg ttggtgttcc cgtgcactac 240  
attggtgttg gacctggcaa agatgctctc atatacaagt aaaagcaact ttatttggtc 300  
cttggttggg cggaat 316

<210> 39831  
<211> 242  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-D2

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cgagttgcgc catggctgtt gcgcgcccgc gcgttcgccg gggccacgcg cagggccacc 180  
gcgccctggat ggacgggcca ccgatgggag gtcgcgccgg gatctgcggg ctcgatcgcg 240  
cg 242

<210> 39832  
<211> 371  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-D3

<400> 39832  
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ttatttgtaa tctgaacttg gcaggaccat ttaatggatt aatgaccggt ttggtaggct 120  
ttttgaaggt ccggttggtt aggggcataa acctggctta ccgacacaca gagaggcaga 180  
gacctgtatg tcgctataac acttggcaag aagacactta acacgagcgt gaaaaagata 240  
tctgtgaacc ctatctggca cggggagcta actttgaccg tcacagatcc cactctagct 300  
gtaaagctgg aggtgttcaa cgaggacacg ttcagcgggg accacccgat gggcgacgcg 360  
aatatcgacg t 371

<210> 39833  
<211> 230  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-D4

<400> 39833

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tgcgcaaggc gaaagttgag ttcgacgagc agccgccgga taacttcgac ccgaagaacc 120  
cgtatgccga cccggtggcg atgctcgagt accgggaaca cctggtgcga tagaagtgga 180  
tccagatcga gaccgccagg atcatccggg agcgccttcg ttggtgctac 230

<210> 39834  
<211> 371  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-D5

<400> 39834

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tataaataga actgggttgg tccccatgga cccatgattc tctcagacgc cactgcgcct 120  
gttcgacgac gcgaagccag aaggcctcgt ggtcggagag gctgacgcat agagggacta 180  
tggaacggg ggtacccgcc tacaacggcg ctccgggcat aatactggga caggcgtgat 240  
cataggggct cactagaggc gcgtgcatcg gtccgtgggg ccaaacacgg tctgtgcgga 300  
agctattgct ctctgggatc ccaaagaacc ggcgtccgat cattctgcgt tggcagcact 360  
tttcctatca g 371

<210> 39835  
<211> 102  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-D6

<400> 39835

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ggcattatca aagtggggct cgcttattcc ctccctcgggg cc

102

<210> 39836

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-D7

<400> 39836

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tttctgaagt agttgcagct gacgagtttg agtacaagga tccagttgat ggctctgtgt 180  
ccaagcacca gggcatccga tacctcttcg gagatggttc acgactgggtg ttccgtctat 240  
ccggaaccgg ttctgttggg gccaccatcc gtgtctacat cgagcaatac gagaaggatt 300  
ccttcaagac cggcagggat tcacaggagg cccttgctcc actggttgat gttgcgctca 360  
agctcttcaa gatgcaagag tacactggcc gctctgcccc caccctatc acataaattt 420  
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<210> 39837

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-D9

<400> 39837

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ttgaggacta cctcaattac tggatccaca ggtttctcca ctgtgagtgg ggggtaccaga 120  
atatccaccg gggtcaccat gagttcactg cgccaatagg attcgcagct ccatatgcac 180  
actgggctta ggtgctgata ctctgcatcc cctacttcgg tgggccagtc attgttgcag 240  
gccacatgat cacattctgg ctctggatta tacttcctca agtggaggct atcgagacac 300  
at 302

<210> 39838

<211> 427

<212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-053-Q1-K1-E1  
 <400> 39838

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 aaagctgatg ggagtgaaat ggatctttct actatcacta gcgcttctcc aagctgccta 180  
 ctaccgccgc atgaggtggg cagtcttgaa gtcccgaaag ctggctctgg atgtcgtcaa 240  
 ctaaggacta tcattaccct ttttttattg aaatatgttg agccgttaag gagcattcaa 300  
 aataatgagt tgggtggtgta caattttgcc actggggcta ggttccatgc ctagaaatta 360  
 ttntgctntc tttactctgc tgagctgcaa aagcatttac caagggagta catttcacgg 420  
 gttttttt 427

<210> 39839  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-053-Q1-K1-E11  
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 agcaagaact cctgcgtcaa gaagtacgac tgcaagatcc ttcccaactc gctggtgatg 180  
 gacttcgtga acaacgggga ggtgtccggg atcacgctgc tcaactccaa gttcttccac 240  
 atgaacatgt acaagtgcaa ggacatgctg atcaatgacg tcaatgtgac ggcgcccggg 300  
 gacagcccca acacggacgg cattcacatg ggcgactcgt tcggggtcac ca 352

<210> 39840  
 <211> 392  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-053-Q1-K1-E12

<400> 39840

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cgcgactcgg tgaagctgtc gggagggccc gaatacgagg tgctcctggg gcggcgcgac 180  
tcgtctgtgt ccaaccgaga ggacgcccac aacctgccgg gcccgacat cgcggtgccc 240  
aagctcatcg acgagttcga caagcagggc ttcaacacgg aggagatgat cgcgatgctg 300  
ggcgggggcc acagcatcgg cgtctgcagg tgcttcttca tcgagaccga cgccgcgccc 360  
atcgacgagg cgttcaagaa gaagatcagc ga 392

<210> 39841

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-E2

<400> 39841

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catcgccgcc ggcattgcaga acaccggcta ggccaagatc ttccggtgtgc aaataacctg 180  
tctcccatga gacgggtggac gatattgtga ggcctgtgag cagtttagtac actcggcgcc 240  
ccagtgtgtt ctgggagggg atttttcaat gtgcagagcc ctttctcttt gtgtgccttg 300  
gctgtagatg cccagggggg gcttaatggc ttgtgaagcc ctgatgcaaa ataaaagacg 360  
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<210> 39842

<211> 219

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-E3

<400> 39842

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acaaccgcat tactaccatg gcaggattca accttacttt caaccccaac aaccatacgg 180  
gggttcaatc cttcaacggg ccatgcctta ccaacaaca 219

<210> 39843  
<211> 319  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-E4

<400> 39843

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ctgccaggag ctcatcgtga gcagcgacaa gaccatcgac gggcgcgag cgcacgtgca 120  
catcgtgggc gcgcagatca cgctgcagaa cgtgcgcaac gtgatccttc acaacctgca 180  
cgtgcacgac gccgctgcgc acggcgcgcg cgcgatccgg gactcgcagc accactgggg 240  
cgtgcgcggc gagagcgacg gcgacggcgt ctacgtgatg ggggccagcg atatctggat 300  
cgaccacctg tccatgagc 319

<210> 39844  
<211> 105  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-E5

<400> 39844

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aagaagaact ttgttgatta aatacgtaac gattactggg gatat 105

<210> 39845  
<211> 116  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-A4

<400> 39845

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ccacgagcca tacttcgccg gtgtgtcaga cggcttttgc caccgattaa ccctcc 116



<210> 39846  
<211> 383  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-A5

<400> 39846

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acgtcgagtc gttcgcacat gatggcagcg ttcttgtcaa gtctcggaag agggaccctg 180  
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aaatggccaa atttgaggac gtgagatcca tcgctcccaa ggctgaacct ttctcaagt 300  
ttcttattcc ctctaccgat taactccaga gcagccttag atgattgtgg atgggggtctc 360  
agcgactttc tatactgcat act 383

<210> 39847  
<211> 230  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 39847

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ctgaagtagt tgaatccggt ggcccttttg gtccaccatt tcgaagcgga tgattttgga 180  
atctggaacc tttgaatggt tgccaaaatt ccgtttatgt ccttaactta 230

<210> 39848  
<211> 366  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-B10

<400> 39848

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 tcccgctcac cacctacctc cgcacctaca agatcggcga ttacgtcgat gtcaagggtga 180  
 acggcgccgt ccacaagggg atgccgcaca agttctacca cggccgcacc ggtcgcgtct 240  
 ggaacgtcac caagcgcgcc atcggcgtcg aggtcaacaa gcagggtcaat gggcgcatca 300  
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 tccgcc 366

<210> 39849  
 <211> 382  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-B11

<400> 39849

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 ggtcgcaatt gtgacattag gtagatggga gatctttgac tgagttttcg tgttttgtga 180  
 gcgaagtcag ggtaggaaat gatgtccgag agtgaagagc atggctcgct cctagacaag 240  
 atcaacgaca agatcaacga gaagatccat gagtataagc actcgtcgtc gtcctcctcc 300  
 tcttcggact cagacgatga caagaagccc aagaagtcta agaagaagaa gctttttgga 360  
 agaaaacatc cattgcatca tg 382

<210> 39850  
 <211> 423  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-B12

<400> 39850

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 gcatgcatgc atggttcatt catttcaagg ggcttcgctt caagaagtgt ggagtgacta 180  
 cattatgcca gagtcatat actctgaaaa tactcgagca ggcaggcatg aaaggctgca 240

atgcttgcatg tgtaccgatg gagaacagac taaaattgag caagaaagat gagtcaccgc 300  
ctgttgacaa gacaaaatac agaagcatta ttggaagcct gaggtatcta gtgaacacaa 360  
ggccggatat agcctttgct agtgggattg tagcaaattc atggaagatc caagagcaaa 420  
aca 423

<210> 39851  
<211> 187  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-B2

<400> 39851

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cgacgtacca ccaccaccgc aagagcgaga tggatatgaa aaggatcctc ttcggcgctac 180  
tcgtcgt 187

<210> 39852  
<211> 384  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-B3

<400> 39852

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gggcctgggtg ggctccttcga catcaccaag ttggggcgct tcggcaatgg caagacagac 180  
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atcctcatat ccaagggcga ctctcctgtc ggacaactca acttcacaag cccttgcaag 300  
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 ttggtgattg agtcgatctc aatactcatc accgttactc tgatagcctt tgccaatgcc 180  
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 <212> DNA  
 <213> Zea mays  
  
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 tccaaatcca ctctttgacc ttgctggtat tatgtgtggg caatttggtg tgcctttctg 180  
 ggagttcttg tttgctactt tgattgggaa agccatcatc aagactcata ttcagacact 240  
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 <213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-B7

<400> 39856

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 gaagtcatca ctatgctcag gtcaaagcag gatatgagcc cagaaaacaa aatgaggttg 180  
 ctaattatat atgcaatgga ttatccaaag aagtttgaag gtgacaaagg gaaaaagtcg 240  
 atgcacttag cgaagcttcc acatgatgat atggatatat taaatggctt aggatacttg 300  
 aatggttcaa atacaaaaaa atca 324

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<400> 39857

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 atatgaaaga aaagtgagag caatgttggt taaaaccaa aatccataat aatgtgtggt 180  
 catccgtgat atgttcttgc tctccctctt tttctttctg tttgatttcg atgtgttctc 240  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-C10

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 gcaagaccga caacgtgaag gcgatgccca acacactggg gctgtttcac gtgatcaacg 360  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-C2

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<223> Clone ID: LIB3075-053-Q1-K1-A3

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 gttctctgga tctgcttgat tatgtgccgc gtgatgatgt gtggagtcag gtcccatgaa 180  
 taaaatagaa taaaataaaa tgttcagatt caggaacat gcaaattggac tgggctgtac 240  
 ggttctctgg atttgcttgt ccttctggtt atagttatct acctcagtgt ggtttcctta 300  
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<211> 427  
<212> DNA  
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<223> Clone ID: LIB3075-053-Q1-K1-C3

<400> 39861

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ttcgccgtca tcttatccgt cctcttctgt gccgcggtg gcaccgccgt cgacaacgac 180  
ctccccgact acgtcatcca gggccgcgtc tactgcgaca cctgccgcgc cgggttcgtg 240  
accaatgtca ccgagtacat cgcgggcgcc aaggtgaggc tggagtgcaa gcacttcggc 300  
accggcaagc tcgagcgctc catcgacggg gtgaccgacg cgaacggcac gtacacgac 360  
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aaggact 427

<210> 39862  
<211> 399  
<212> DNA  
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<223> unsure at all n locations  
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gcctaccagg tcacctacat cgtgcgcggc agtggccgcg tccaggttgt tgggatcgac 180  
ggcacgcgag tgctcgagac ccgcgccgag ggaggctgcc tcttcacgt gccaaaggttc 240  
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cccaacccaa tcttttagcca cttggcgggc cggacatcgg tgtggaggca atatctncgc 360  
ggtctntgca gtcgtcgtaa caccacgccg gagatggag 399

<210> 39863  
<211> 455  
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-052-Q1-K1-F8

<400> 39863

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tacctgaacc cggcgacta cctcaagcgg cccaagcgcc tggcgctcct cttcttcgtc  180
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gagatttccc gattagaaga tgatataaat cggttgcatg accagctaag aaaggctgga  300
gttaatctgg atgaaaatcc agtagtaagc aataagaatt ccagaaaaga tcttgtagta  360
gaaattgatc ctgtcaataa tgaaagacgg gaaaaagtta aagaggcaat gctccatgct  420
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<210> 39864

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-F9

<400> 39864

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tacctgaacc cggcgacta cctcaagcgg cccaagcgcc tggcgctcct cttcttcgtc  180
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gagatttccc gattagaaga tgatataaat cggttgcatg accagctaag aaaggctgga  300
gttaatctgg atgaaaatcc cagtagtagc aataagaatt ccagaaaaga tcttgtagta  360
gaaattgatc ctgtcaataa ttgaaagacg ggaaaaagtt aaagaagcaa tgcttcatgc  420
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<210> 39865

<211> 456

<212> DNA

<213> Zea mays



<223> Clone ID: LIB3075-052-Q1-K1-G11

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gcagataaac ctgttccaat gggcaaacia aaagaggggtg tggacaaaag aactgctagg 180  
aagatgatcc gatctacgga aggctgtgca aagagcatta ctttcgagag gaacaacaaa 240  
tcagacgatg tgcagcttca cgatctgccg aatgacatcc taggtagcat actatcacgg 300  
ttgacattca gagaatcctc acagatgggc cttgtttctc atacctggcg gcggctgtgg 360  
agaagctgtt gccggaaact ggtcttcacc agtgccacca tgttccaacc cggaaatagg 420  
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<210> 39866

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-G12

<400> 39866

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tgcagataaa cctgttccaa tgggcaaaca aaaagaggggt gtggacaaaa gaactgctag 180  
gaagatgatc cgatctacgg aaggctgtgc aaagagcatt actttcgaga ggaacaacaa 240  
atcagacgat gtgcagcttc acgatctgcc gaatgacatc ctaggtagca tactatcacg 300  
gttgacattc agagaattct cacagatcgg ccttggtttct catacctggc ggccgctggg 360  
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<210> 39867

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-G5

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gacctcgagg ataagctgaa cgagatccga aagaccaaca gccacctggt aatcatcggg 180  
aagcccacgg ggcacaccaa ggaggagtac gacgctgagg tggaggacga cgatgcagac 240  
aacgtcgagg agtctgacgg cgacgacttc taccaggaga ccggttgacc cacgtggctc 300  
ccccgtgctt cgtcggcgtc cttgagcgtc gtcacccccg ctgtccagtc tgtatttcgc 360  
aatccctgag ttgttccttc tatctagata cgctgttacc ctattct 407

<210> 39868  
<211> 453  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-G6

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gccgacagtg cgcagctgca gcagcaccgc cccaccggca ccgttgagca ggtggcgag 240  
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acaaacaccg tggcggcggt ggcgggcgggc gtcacgaaca cggtcacggg cgccgtggcg 360  
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<210> 39869  
<211> 390  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-H1

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gctatgtcgc cgctcggagcc gacgcgggag gagagcgtgt acatggccaa gctggcagag 180  
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ggcgccggcg gaggggagga gctctccgtg gaggagcgca acctgctgtc cgtcgcctac 300  
aagaacgtca tcggcgcccg cagggcctcg tggcggatca tctcctccat cgagcagaag 360  
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<210> 39870  
<211> 278  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-H2

<400> 39870

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caagggactg caaggctggt gactggaaga acaaatgc 278

<210> 39871  
<211> 354  
<212> DNA  
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<223> Clone ID: LIB3075-052-Q1-K1-H4

<400> 39871

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gcatgtctc ctccgtccac gacgacgcct atgagacggc caagtgggag aagatcacct 180  
acgcggggat cgtgacctgc accctcctgg cggcgtaaa cctgtccaag ggccaccccc 240  
acttcgatga gccggcgggc taccctatc ttcacatccg caacaaggag ttcccatggg 300  
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 <212> DNA  
 <213> Zea mays  
  
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 ataatgcagc tgccccattg cttgcacagc agttgccacc agacactgca aagaactcca 180  
 ctgtcatcat gcatacccat gaaacaagta aagtcaatca gttggctgct acatggccaa 240  
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 <223> Clone ID: LIB3075-053-Q1-K1-A10  
  
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<210> 39875  
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<210> 39876  
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 <212> DNA  
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273

<210> 39877  
<211> 301  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-F6

<400> 39877

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ggatttggtc ctttaatttg tccaaatgac gatgctgttg atattttcac cgcttcattg 240  
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<212> DNA  
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<223> Clone ID: LIB3075-052-Q1-K1-D8

<400> 39878

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cgggtccaac atcaccacca actacaacgg caagtggctc accgccagtg ccacctggta 180  
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<210> 39879  
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<212> DNA  
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 gtaatgcaca tgatgttttc cttatgtatt aattccttta cttttaaagc acatgatgaa 240  
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<210> 39880  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-052-Q1-K1-E1  
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 atggaattta tttactgttg gtttacctag tacttgctta ccagccaggc gccccagggg 180  
 acgacggcaa agatacagtc tcgggtatta ggtatggcaa ggcagcgata gataaattct 240  
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 <212> DNA  
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<400> 39881

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ccagcatgag actcttgcca cagaagctcc tgctgctgcc cctgctgctc cagcgatgaa 360  
tgctgatgct tgcagcttcc attctaaggc tttccaagat tgtctcaaca actatggcag 420  
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<210> 39882

<211> 331

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-052-Q1-K1-E11

<400> 39882

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gggggggagag cgggggtata ccacccttnn nccggggggg gggctaaggg ggaaaaaaaa 180  
aatggggggg ggggggaaaa aggatttggt ttgggggaagg gggggggaaa aaaaaaatg 240  
ggggcggggg gaaaaaaacc cggggggggg gaaaaagggg gggggaaaaa aataaggggg 300  
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<210> 39883

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-E3

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tctgtgcgct gagccagtta acgagtacgt ccagagctgc gacatcgttg ccttcaacaa 120  
gatctaggcg tgactttcga tcagtccttc ccctggggtg ctggcgatgg tgggtggctgg 180  
gcaatgcacc agcctaattt ttccatagct atatgtctgc tttgtgtggc cagtgatatt 240  
gccgtgagta tttttggatc ctattcgagt cgaatgtacc agtaccagag ttaatttgct 300  
ttaattcgaa acaccgttcc gggttggaatt ctgttaccgg tgttctttgc ttgcagttcc 360  
tctatttctt ttttg 375

<210> 39884  
<211> 419  
<212> DNA  
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<223> Clone ID: LIB3075-052-Q1-K1-E4

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atccctgact gttccctga ggttcgatgg tgctctgaac gttgatgtga acgagttcca 180  
gaccaacctg gtgccctacc ctaggatcca cttcatgctt tcgtcctacg ctccagtcac 240  
ttctgctgag aaggcctacc acgagcagct gtccgtggcc gaaatcacca acagcgcctt 300  
cgagccatcc tccatgatgg ccaagtgcga cccccccat ggcaagtaca tggcatgctg 360  
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<211> 431  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-052-Q1-K1-E5

<400> 39885

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taactctgta aatcgtgttg aactattggc gaaaaagatc acagagcttg gctattcttg 180  
cttctatatt catgcaaaga tgctacagga ccaccgtaat agagttttcc atgatttccg 240

taatggagca tgcaggaacc ttgtttgcac tgatcttttt acaaggggaa tagatattca 300  
agctgtgaat gttgttatca attttgattt cccaagaac tctgaaacat atctccacag 360  
ggttggtaga tctgggagat ttggtcacct tggctcggcc gttaattnga tcacctatga 420  
ggatcggttt a 431

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<211> 58  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-E6

<400> 39886

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<210> 39887  
<211> 463  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-E7

<400> 39887

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accccgtca ccttccaggt tggcaaggga tccaagcctg gccacctgat cctcaccccc 180  
aatgttgcaa ccatatccga tgtggaaatc aaagagcacg gtggcgatga cttctccttt 240  
acgctcaagg agggaccgac cggcacctgg acgctcgaca ccaaggcctc gctcaagtac 300  
cccctttgca tccgctttgc tgtcaagtct ggtggctacc gcatcgccga cgacgtcatc 360  
cccgccgatt tcaaggccgg caccacctac aagaccacac tcagcatcta attagcctct 420  
catgatgaat tagatttcaa aagagctcat ctggcgcaaca tgt 463

<210> 39888  
<211> 321  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-E9

<400> 39888

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ctgcggaaag atagaatcat ggaaagagaa tgtgcgcatg catgggagag atcgtgaaca 180  
gggtcattta tgtgggacga tggaagcgtc tgggtggttca tttgcacaca cacctgacgc 240  
gacttttttg gagggggaga tagactgtgc tgaagacatc actgatttca ctggagagcg 300  
ggaggcatgg cctgatgatc a 321

<210> 39889

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-F1

<400> 39889

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ggccgcccgtg gcctccttct tcgcgtacta cattcactga gccgcgggac gaggagccgg 180  
agccggaggg aagagaccaa ggtgggggga gagacttggc tgcgctgcgc tgcctctgctg 240  
ctcccgcgca ttcccgatgc gtgggctgctc tctgattggg cacggcggtg gcagtggcac 300  
accttcgtct tccttttgtt tgtttttttt tccttctctc ttctacttga ttttcattta 360  
acgaattggt atcgctgatg caccagttaa atttggtgcc ctgttatttg ttctttccct 420  
cgagtgaggg atcgacacct gtaccattgc ttgccatttg tctgg 465

<210> 39890

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-F11

<400> 39890

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cgggcctggt gggtccttcg acatcaccaa gttggggcgcc tccggcaatg gcaagacaga 180  
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aattcttata 250

<210> 39891  
<211> 465  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3075-052-Q1-K1-F4  
<400> 39891

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ctgtataaca ttgcacaggg tggcttgctt ccattcccaa taactgcatt cttccttata 180  
aacacactct cttggacctt ccgtcgacgc acgacgccag actacgaggt gagcaacctg 240  
atcgatagcg cagcacttca tcaagacagt gaacactagc aacagagtac ctgcaatatg 300  
catcttctgc acggacttga tgaactgcat cccgccgatt gtgcgccact acgtcgagca 360  
catgggctgc ctncgcgagc tgatgggtgt cgtcactgtg aggcattctgc ctgcgacgtc 420  
tgtgctgcct gaggagcgct tcctcttcga caggctggaa ccttt 465

<210> 39892  
<211> 421  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-052-Q1-K1-F5  
<400> 39892

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gtgaaaagaa aatgcttacc tcggcagaga ttctgtgcaa atcttaccgc ccggagtctg 180  
tctcatatct ccactattgt cgctccctgc gatttgaaga caggccagat tactcttcaa 240  
tgaagaagct ctttcgtgat gtatttatac gggaaggata ccaatttgat tacgtatttg 300

actggactgc actcaagtac cctcaaatgg gctccaacga caagcttggt caacaaccaa 360  
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 c 421

<210> 39893  
 <211> 446  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-052-Q1-K1-D6  
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 ctattgatga tgcagctgct gtgccatttg aaaatttgca agttcttttg ttaggatcta 120  
 atgacataga tgacttttct tcagtggatt cacttaacct gttcccaagt ttaagggatg 180  
 tcaggctttc tgacaatcct gtagctgac ctgccaaggg tgggtgctcct cgttttgtgc 240  
 ttgttgctcg acttggaataa gttggaatac taaatggcag tgagataagt ccacgtgaac 300  
 ggaggggaatc tgaaatacga tatgtccgcc ttgttatggg aaaaatagaa tcaaataacc 360  
 aagaagagat cagacggctt caccctagat tcgctgaact gaagtccttt catgggtattg 420  
 aagatgagaa gccaaacttca agcata 446

<210> 39894  
 <211> 383  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-052-Q1-K1-C1  
 <400> 39894

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 gctgctgctg tgttgtctgg aaacagaaat tttgaaggac gtgtgcatcc ttttaaccaga 180  
 gcaaattacc ttgcttgccc tcctttaatc gaggcttatt gcttggctgg cacagttaat 240  
 attgattttg agaaagaacc tattggcatc tccaacgacg gtaaataatgt ttacttccgg 300  
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<210> 39897  
<211> 461  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-C4

<400> 39897

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agttctcgac gcccggtgcag gccgtggccg agcccgcct aaaggtgacc atgtacgcgc 180  
caccgttcac gacgcacggc tactccatga accagcggct gctggtgctg tccgtcaccg 240  
cgttcgcggc caacgggcag aggtacacga taacggtcga cgctccggga aagcctgagc 300  
tcgcgcccgc cggatactat ctgttgtagc tcatagcgaa aggcgtgccg agcaaggccg 360  
cgtgggtgaa ggtacacaaa tgagaacgaa ggcggtcgcg agacgaatgc cagtcgcgtt 420  
tggcacgaca atacacaagt gttcaccgga gtagctggac c 461

<210> 39898  
<211> 462  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-C6

<400> 39898

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tgcatatcgt gcttgtgcag gagtcatcaa atgtggcaaa aacttttgcg tgaccagttg 180  
accatcccg tcaaaaaatc atctgattga agatggtgga agcaacagct tgtgtatcaa 240  
atgcagaatt gttcaacaat tgtgtatgta ttaacttttt gatcaaaccg ggtccagtgt 300  
ggcgggtaac acaagcaggg tccttctgcc tctagttgtt ctcatcctc atctcgtact 360  
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<210> 39899  
 <211> 449  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-052-Q1-K1-C7

<400> 39899

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tctcctgctc attgtgtcca ccgatatggc acaggcaagg gaatgcgaga agtacagtga 180
gcgatttggt ggggcatgca tgatcgcaga caactgcgcc aatgtgtgcc gcggtgaggg 240
cttcttgggc ggcagggtgca gcaccttccg ccgccgctgc atctgcacta ggcagtgcta 300
aacaagatcg ctcgatcgct cgccatgcat cgacaacctt ttcttaataa cgttcattat 360
ctcgttctta tttatgacga atgtcatgta tgttctggtg actgtcatgt atattctgat 420
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<210> 39900  
 <211> 443  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-D10

<400> 39900

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agaagttcaa cagccctgtg atgtcatcg gagagaacgg aattgaccag cctggaaatg 180
agaccttgcc gttegtcttg tacgacaagt tcaggataga ctacttcgag aagtacctgt 240
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tgctggacaa cttegagtgg cggctcggct tcacctccaa gtttgggata gtgtacgtgg 360
accggaacac gttegtccgg taccccaagg actcagctcg ctgggttcagg aaggtcatca 420
agaacgagaa ctgaatgata gat 443
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<210> 39901



<211> 444  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-052-Q1-K1-D11  
  
 <400> 39901  
  
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 gcggcgctct tctgggtgtc tatgacagtc tcgaaggcgc cgacgagcgc cttgaccctg 180  
 ctgcactggc gcttctgcat cagcttgggtg cgtgccgcct cgatcacgtc gttgctccgc 240  
 gccacctccc ggccgcgcgg ctgctccgcc tctgaccgcg gctccatcgc tgtcttcacc 300  
 cggctgceca ggaatctccg catcgccacc tccttctcgt ccatctccgg cttcttgatc 360  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
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 gtc 123

<210> 39903  
 <211> 328  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-052-Q1-K1-D2  
  
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 aagccgcgag gagatggggc gtcggctcat cattagaggt tgcaggagcg accgaggagg 300  
 caccgtcaag gagctatcag tacgaata 328

<210> 39904  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-D3

<400> 39904

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 gggagaacac aacctgccgt tttcccacgt ggccaaagct ttggacaaag aattatgggc 180  
 aatatgatgg ataatatattt ggtcagaagt cttacgtcca aatcaaaagg tcgaacagat 240  
 gatattgctc caccctcacc tgtgaaggcc cctgatgatg aggctgacaa ggctgaagag 300  
 gaagaaagcc ctatgatgga aactgtcagg agcaaagtta ttacacagtt actgctgctt 360  
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 gcaataatgg atat 434

<210> 39905  
 <211> 466  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-D4

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 gaagaaacgg tgcttcagtc tttagcattt tgaggaggaa acgtgaaact tactggtcag 180  
 ctgaaagcta taaacattgc catggccctg gactggaagc cccaactttc ccaagcctgt 240  
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tgggtacagt agctagctat agccctagtc tgatgtaaga acaaatttat attatccatc 360  
ccatattgtc ttttaattaga ttcttttttg aaaccaatgc aatttcagct cttgctgtcg 420  
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<210> 39906  
<211> 285  
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<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-B8

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ataacgcgcg atatgttttt aacaggctct acaaactctc gctcaaagag atcaaggccg 180  
tcccctaata cgagggtttc tcgatggcct gcttatactt tcacccttta cacgtttcca 240  
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<210> 39907  
<211> 253  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-H3

<400> 39907

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aacgtgttga gaactacgtc accacggatc accagatccg ttcctttccc tgccgtcagc 180  
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acatgagaca cat 253

<210> 39908  
<211> 388  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-A1



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<210> 39911  
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<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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gcgccacggn cgntcgctc gcccgggcct tcggcgcaat gccgtacctg gtgttcgacc 360  
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<210> 39912  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-A2

<400> 39912

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cgacctgtta ggggacaacc agggctaccg acagctgtca cagctagacg agcaggcggc 180  
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<210> 39913  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-A5

<400> 39913

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 agttcgtttt gttgttatca tttatttatg taagacttcc gctttgtata atgatacttg 120  
 tgatatatt 128

<210> 39914  
 <211> 483  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-052-Q1-K1-A6

<400> 39914

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 gcacattctt cgctgctagg gcgcgcggcg cgtcaccggg gcggggggcg tcgcgcgcgtc 120  
 gtcttcggcg ccatggcggc ggacggcctc cgcgctgtac caccacacga tccaggctgg 180  
 accgcgggag acagtcgggc gcgcgcggcg ggcgcgcgag cgccgtcacg gacgcgttcc 240  
 ggcggtcctg ctcacgctcg cgggcgcggc gccagggaac ggaattgacc accggaacct 300  
 ccttacgctc gacaggaggc agctcgcgga gatgctcaag cagtcgccct acttactctt 360  
 caccgccgct cgcttcagg tccgcgcggg cgagcgatcc aacgccattc ttcacgcggg 420  
 caccgtnctt ccataaggt gcatagagat gaaaattctg ggaatatact gaatttggtg 480  
 atg 483

<210> 39915  
 <211> 388  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-A7

<400> 39915

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 cgacctcttc ggcgacaacc agggctaccg cgagctgtcg gagctcgccg agcaggcggc 180  
 caagcgcgcc gaggtggcca ggctcagga gctgcacacg ctcaaggga acgtcgagtc 240  
 cgtcgtcaag ctcaagggcc tcgacattga caccattcag cagagctaca ccgtgtaaac 300  
 tcgactcagt ttttttattt gttttttttt gcagacaaat acaaaccaca cacatatata 360  
 tatttgtaaa gattcgttcg tattttca 388

<210> 39916  
 <211> 359  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-052-Q1-K1-A8

<400> 39916

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 ccgcgattcc gatcgaggct aaggccgcgg tgacgtcgga ggcggaggcg gaggccgagg 120  
 gcgaagtgga ggcggagatg aagggtgatg cggcagccac ggcggaagaa acggaggagg 180  
 aggaggagga ggagaagggtg tccaaaagcg acctgaagaa gctggagAAC ctcatgtcca 240  
 agcttaaccc ctccgcgcag gagttcgtgc cgtcgtcgcg ccgcacggnc ccagccgccg 300  
 tgtcggcggc gaanccggcg ggaggaagggt gctcttagcc gacgcgcccg tgttcgtgt 359

<210> 39917  
 <211> 124  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-A9

<400> 39917

gcagaagatg acagcttctt ctttgggcta gcgaccgcgc cggcacatgt ggaggacagg 60  
ttggaagacg cttggcttca gtttgcggtg gagcactcct gcgacgacaa ggaggccatg 120  
cgcg 124

<210> 39918

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-B10

<400> 39918

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cctgcatcgt ttctcgatct ctcgaccggg cgagggcgac gccgcccgcg cgcgcgccat 120  
ggatgtggat tacgacgtga tcgtgctggg caccgggctc aaggagtga ttctcagcgg 180  
cctcctctct gtggaccgcc tcaaggtggt gcacatggac aggaatgact actacggcgg 240  
agactccaca tcgctcaatc tcaatcagct ctggaaacgg ttcaagggtg aagaaacacc 300  
gcctgcgcac ataggagcta gcagagacta caacgttgat atggttccaa agtttatgat 360  
ggcaaatggt accttggttc gtgtgctcat tcatactggt gtcaccaagt acatgtcctt 420  
caaagctgtg gatggaagct atgttttcaa caagggaag 460

<210> 39919

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-B2

<400> 39919

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attgatggac atgttaagcc tgttctaggg agaaagctta actggatgaa ggcagggatc 120  
attgagagtg atctggttct aacagtcagt ccacattatg tcaaggaaact cacttctggc 180  
ccagataagg gtgttgagtt ggatggtgtc cttcgacaaa agcctctaga aattggaatc 240



gtaaattggca tggatgttta tgaatgggat ccttcaacag ataagtacat cagcgtgaaa 300  
 tatgatgcaa caacggtaac tgaagcaagg gctctcaata aagagagggtt gcaagccgaa 360  
 gtcgga 366

<210> 39920  
 <211> 428  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-052-Q1-K1-B3  
 <400> 39920

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 ccctgagggc ggcgcgcgcc gtgaaggaga cgacggggat cgtgggcctt gaggtggtgc 120  
 ctaacgcgcy agaggttctg gtagggctct acgagcgac gctcaaagag atcaaggccg 180  
 tccccgaaga cgagggttac cgcaaggccg ttgaatcctt caccgggtcac cgcctccaga 240  
 tctgccagga ggaggaggac tggaagcgca tcgaggaccg aatcggatgc gggcaggctc 300  
 aggagctcat cgaggaggcc gaggacgagc tcaagctcat cgctaaaatg attgaatggg 360  
 atccatgggg tgttcccgat gactacgaat gtgaggatgat tgaagacgac accccaattc 420  
 ctaagcat 428

<210> 39921  
 <211> 363  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-052-Q1-K1-B5  
 <400> 39921

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 gtgatcgtgc tgggcaccgc gctcaaggag tgcattctca gcggcctcct ctctgtggac 120  
 cgcctcaagg tgttgacat ggacaggaat gactactacg gcggagactc cacatcgctc 180  
 aatctcaatc agctctggaa acggttcaag ggtgaagaaa caccgcctgc gcacatagga 240  
 gctagcagag actacaacgt tgatatgggt ccaaagttta tgatggcaaa tggtagcttg 300  
 gttcgtgtgc tcattcatal tgggtgcacc aagtacatgt ccttcaaagc tgtggatgga 360

agc

363

<210> 39922  
<211> 397  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-B6

<400> 39922

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gggcctcttc tgcacgtgc atggtgagaa ggaagagtca aaggcatcg atgcgaaagc 120  
gtccgggcct ggtgggtcct tcgacatcac caagttgggc gcctccggca atggcaagac 180  
agacagcacg aaggctgtgc aggaggcatg ggcacggcg tgcggcggca ctgggaagca 240  
gacaatcctc ataccaagg gtgactttct tgtcggacaa ctcaacttca caggcccttg 300  
caagggcgac gtgaccatcc acgtggatgg caatctgctg gcgaccacgg acctaagcca 360  
gtacaaggac catggaatt ggatcgagat tctacgt 397

<210> 39923  
<211> 144  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-B7

<400> 39923

atggaagcag acatagcaga tgatatgtct atagagcttc acatatatac agattttctta 60  
agaattgttc tggagataat tattgccatc cttacatatg cattgcccag aaatcctgag 120  
gttgtgtatg ctgtattgca tcga 144

<210> 39924  
<211> 151  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-051-Q1-K1-H1

<400> 39924

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gggaacgaag agnagaagca gatcggagca cgcagcaacg gcgatgtata gcgtgctgat 120  
aagctggtga gaactacggt accacggatc a 151

<210> 39925  
<211> 270  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-C8

<400> 39925

cctcctcttc ggactcagac gatgacaaga agcccaagaa gtctaagaag aagaagctgg 60  
ttggaagaaa acatccattg catcatgtcc tcggaggagg caaagccgcc gaccttgtgc 120  
tgtggaggaa caaacaggca tctgggagca tcttggtagg ggtgaccgtg atctggttac 180  
tgttcgaggg catcggctac cacctgctta ccttcctttg ccacgcacta attgtgtttc 240  
tgaccatctg gttcatgtgg gccaatgctg 270

<210> 39926  
<211> 283  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-D2

<400> 39926

ggaggagaag aaaagggagc ttgaactatt ggataacaag gtgcaaacat tagagaaaga 60  
gtgggtctgtg gttgaagaag aatctttaa gaaaccact cctgcacaaa gggagaaggt 120  
cctggagagg caactgcata gcctcatcga gcagttgaca gctaagcaag ctcaagctga 180  
aattctggcc actgatgtgc attccaaaga aaaggagctg gaacggctga accatctgca 240  
tagaaacctc tacggcgggtg ccaacgaaac tggcgcaccc cgg 283

<210> 39927  
<211> 254  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-D4

<400> 39927

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ggcgggtgtga tcctgttggc agtgcttata tttatcctga tttcctact actattgtgg 120  
ttgtttcatt cgtacattgc tgtaacaaat caatcaacct acgaagttgc cagaaggaag 180  
cgaatattct acctaagggg agttcctgaa agagtccacc cattcagtag aggcatatgc 240  
agaaatctct atga 254

<210> 39928

<211> 248

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-D6

<400> 39928

ggatgctgcg gagagcacca tgaatgccta caaagctgct caggatattg ctcttgggga 60  
tctggctcca acccaccoca tcatgctcgg gcttgctctc aacttctcag tggttctacta 120  
cgagatcctc aactgccctg accgtgcttg caaccttgct gagcatgcct ttgatgaggc 180  
aatctccgag ctagactgcc tgggagagga gtcctacaag gacagcactc tgatcatgcg 240  
tggttctgc 248

<210> 39929

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-D8

<400> 39929

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tcctacttgc aacggcgatg ctgggttgcg tggttgcggt tggtttgtgc accaccccg 120  
tcaccttcca ggttggaag ggatccaagc ctggccacct gatcctcacc cccaatgttg 180  
caaccatata tgacgtggag atcaaagagc acggggggcga tgacttctcc tttacgctca 240  
aggagggccc gaccggcacc tggacgctcg acaccaaggc cccgctcaag taccctcttt 300  
gcatccgctt tgctgtcaaa gtccgtgggt accgcattcg ccacgacgac aatccccgcc 360  
gatttcaagg ccgcaccacc tataagacca cactcagcat ctaatcagcc tctgatgatg 420

aaatatatattt caaaag 436

<210> 39930  
<211> 58  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-E1

<400> 39930

tgaaaagaca gtttagccatc aagcaggtgg tagtggtcac cgaggtagat ggtccaaa 58

<210> 39931  
<211> 273  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-E2

<400> 39931

gctatccagc tccaactgca cggtagccat cgtaggcagg aaggaggact gcaccatcgg 60

agccgttcga gatgattggc gccacaagga tacaggaact tatcgactcc atggaggctg 120

ccgaggaggc gccctgggag gaggccagct tcgtgcagga tgaggagagg ggcccagaag 180

atgctgctgc tgctgcacct gcacccatgg acatctataa gcccacatg aaccaccaa 240

gtttacgctg cattctgtgg tccctaaaga cta 273

<210> 39932  
<211> 255  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-E3

<400> 39932

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agggctgttt gagatttgac ccatgcgttt ctttaagagc atcgctgaat aaaagatgac 120

tgcagtcaga ttgctttctt ttgatacctc atattggccc attgggtgtg atggacatgt 180

aatattcagt tatggaacat gtcattttct atgcttagcg tgctgggaat tttgcaaaag 240

gtctcatata tcatt 255

<210> 39933  
 <211> 409  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-051-Q1-K1-E4  
  
 <400> 39933

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 gaacgccagg ttccttggac cactatatcc aggagcgacg aagtgatcca cccgccagcc 120  
 atggagatga agaaggtcct ctgcgcgcgc ctcgtcgccg ccgcctcggc caccgccgtg 180  
 ctggcctcgg tcgcctccga ggcgccctcc gaggcgcccg ccggcgcggc cgggtggtgcg 240  
 gctggcccta gcgcaagcgg cgcgcgcgc gtcgtcgtgc ccgccgtcgg ggcgctcgtc 300  
 gcctccttcc tcgcctacta cctncaactga gcgacgacgc gcggggcggc aacgttggga 360  
 tgcacgtgtg ttgttcattc gataaataat tggttttttt atttacgtg 409

<210> 39934  
 <211> 238  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-051-Q1-K1-E5  
  
 <400> 39934

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 gaagcgtagt gaaggggaac aaatgaatgg atatatgtaa tcttgagatg catgccctct 120  
 caaatcactg tactgggggt ctcaaaaaaa ttattcgcac gggagttata tatataactg 180  
 tatctcacca tttatttaca ccaacaagtc attgggtatg catgttctat cgttacat 238

<210> 39935  
 <211> 253  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-051-Q1-K1-E6  
  
 <400> 39935

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 aaggtaatgg agtcgtcacg caggttccag cgggccgtca tcctgcttct cctgctcatt 120  
 gtgtccaccg atatggcaca ggcaagggaa tgcgagaagt acagtgagcg atttgttggg 180  
 gcatgcatga tcgcagacaa ctgcgccaat gtgtgccgcg gtgagggctt cttggccggc 240  
 aagtgcagca cct 253

<210> 39936  
 <211> 343  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-E7

<400> 39936

ctctccacc accaccacca agtcaacaa cagccagctc gcgaaaataa tgaagagccg 60  
 cagcatggca tcatcgcccg cgctcttggg gctagccctc gcgctagtgg cggccaccgc 120  
 cccacaggta gcggaggcaa agaagaagag agcggcggag agcggcgagg cggcggaggc 180  
 gaagaagatc caggacgact tctgctcgac gctgtgcgag ggcaagaagg ggacggacct 240  
 gttcgtgtgc aaggagtcct gcgctctctc ccagcagtc aacctgggtc tgtacggcag 300  
 gatccagtgc aagggaagt gcaccgagca gaaaggcatc acg 343

<210> 39937  
 <211> 392  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-051-Q1-K1-E8

<400> 39937

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 atggatacac tgcaaagtcg acttgatgca gagttccttc tagctcatat gtgttcagtc 120  
 aagtttaagg aatggatcgt ggtgctagct actttattgc ggcgtgcaga ggttttgggtg 180  
 gatctcttta ggcatgattt gcgattgtgg aaagcatata gcattactct acagtcacat 240  
 gatgtattca cagaatatct tgaccttctt aatatcttgg aggaggagct ntcactgtc 300  
 tctgatotta cattgcaaaa tggaccattg tcatgaatgc tggacaatgc cactgattga 360

aagattgcgg tgtttaaacc ttgagttaat ta 392

<210> 39938  
<211> 59  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3075-051-Q1-K1-F1  
  
<400> 39938

cggactcgtg tgacgtcacc gtctacatcg cgggctccaa agtgagggtg gagtgcctag 59

<210> 39939  
<211> 379  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3075-051-Q1-K1-F2  
  
<400> 39939

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caagccgcgg ccgacgccgc agcagcagct ggcgcgatgg cagcgccgcc tccgcaacga 120  
gtgccgcgctc ctgcaccgctc agatccgaga tgtgcagagg gaggagaaga acgtggagaa 180  
agccatcagg gaggctgcca agcgcaatga catgggatct gcaaaggctc ttgctaagga 240  
gcttgtaaga tcaagacgtg ctgttaatcg gctttatgag aacatggctc aactaaattc 300  
aggtatcaat gcaccttga gacatttgtc gcactgcatg aacagggtggg tcatcgggtcc 360  
aaaagcactt gaagtgatg 379

<210> 39940  
<211> 233  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3075-051-Q1-K1-F3  
  
<400> 39940

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acttcggcac cggcaagctc gagcgcgcca tcgacggggt caccgacgcg accggcacct 120  
acacgatcga gctcaaggac agccacgagg aggacatctg ccagggtggtg ctggtggcca 180



gtccgcgcaa ggactgcgac tgaggtcagg cgctcaggga ccgcgcgggc gtt 233

<210> 39941  
 <211> 331  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-051-Q1-K1-F5  
 <400> 39941

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 ggccgggatcg tgatggagct gtacgccaac gaggtgccca agaccgcgga gaacttccgc 120  
 gcgctgtgca cgggcgagaa gggcgtgggc aagtccggga agccgctcca ctacaagggc 180  
 tccaccttcc accgcgtcat ccccgagtgc atgtgccagg gcggcgactt cccccgcggc 240  
 tacggcaccg gcggcgagtc catctacggc gagaagttcc ccgactgaga agttcgtgcg 300  
 caagcacacc gtccccgggtg tgctctgcat g 331

<210> 39942  
 <211> 265  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-051-Q1-K1-C6  
 <400> 39942

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 ggctactctg gcgtggaggt gcgcgtcacg ccgatgcgca cggagatcat catccgcgcc 120  
 acgcgcacgc agaacgtgct cggcgagaag ggccgtagga tcaggagct cacctccgtc 180  
 gtccagaaga ggttcaactt ccctgagaat ggcgtagagc tttacgccga gaaggctcgtc 240  
 taccgtggcc tctgtgccat cgcgc 265

<210> 39943  
 <211> 343  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-051-Q1-K1-F6  
 <400> 39943

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 taagcaacca gcctctttca cgggttctga ggttcgaatc attgacgatg acatgcccct 120  
 tgctcaattt gctgttgctt tcaatggagc atcatgggta gatcctgatt ctgttgccact 180  
 gatggttatg caatcaatgc ttggttcatg gaacaagagt gctggtggag gaaagcatat 240  
 gggttcggag cttgtacaga aagcagcaat caatgacatt gctgagagtg taatgtcatt 300  
 caacatgaat tacaaggaca ctgggctttt tggggctctat gct 343

<210> 39944

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-G1

<400> 39944

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 gcaggcatat cttgtgtcat gagaaggcta cgatggcaag aggacattca gggcagcatg 180  
 acagctgctt ttggtgctgg tgctcttttc tccatagtga gcggaatggg aactcctaa 239

<210> 39945

<211> 136

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-G2

<400> 39945

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 gcaagtacat gctcgggggc atggaccggc accggcacgg cctgttcgac gacgatggga 120  
 agtagatgca cggaga 136

<210> 39946

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-G3

<400> 39946

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gccagcttat gcagatgacc atgatgggtc caccttcgtt accgtgagaa cactctctga 120  
acaaggagga cagactgggt cgctattgct ggctgggtgt gaagcacaga gacgcgggtgt 180  
atggactgga gttctgctat gaggatggcg gtaggaacga gctgagcggc tttagccttg 240  
cttgtagaaa ggatg 255

<210> 39947

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-G5

<400> 39947

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gggtggctgcc gcctgtggcg cggcgtcgta tggggggctt gctgctcctg gcttctgcag 180  
caaccacgct gaggtgtttg atcatccaga gcttcaatgt gccactgcga tggattcaac 240  
atgcgttcga atcggttaac gaagtacttg cagttgcagc atagatcggc tctagaggtc 300  
gtcgattcgt aatttaattg atgggatgat cgagtatggg ggctcattaa cttatgatga 360  
gatttatct 369

<210> 39948

<211> 149

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-G6

<400> 39948

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acaagcggaa ggagctcgtc gaggcgtct 149

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 <213> Zea mays  
  
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 cgggctcaac gacaagattc gccactgcgg catcatggac gtcgagttca gaaggggtgcg 120  
 atgcaagtac cccgccgggc agaagatcgt gttccacatc gagaagggtc gcaacccccaa 180  
 ctacctggcc gtgctgggtga agtatgtggc ggacgacggc gacatcgtgc tgatggaaat 240  
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 gatggacact 310

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 <213> Zea mays  
  
 <223> Clone ID: LIB3075-050-Q1-K1-H10  
  
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 tggcaccgtg ctgacactgt tgacgggatt gactctgacg ggcgccgtgt tggaactcgt 240  
 cttcctgggg ggcatcgcg tggtcaccag acccatgtgg gtgcccgtcg acggcgtgat 300  
 ctccgacatc gttggcgacg cgctctacga ctgagccttt cagcagggca agtccccgt 360  
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 <211> 398  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-050-Q1-K1-H11  
  
 <400> 39951

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 ccgtccttgc ggcgctcgtc gccggcggggt cgtgcgggcc cccgaagggtg ccacccggcc 120  
 ccaacatcac caccaactac aacggcaagt ggctcaccgc tagggccacc tggtaacggtc 180  
 agcccaacgg tgccggcgct cctgacaacg gcggtgctg cgggatcaag aacgtgaacc 240  
 tgccacccta cagcggcatg acggcgctgc gcaacgtccc catcttcaag gacggcaagg 300  
 gctgcggtc atgctacgag gtgagatgca aggaaaaacc tgagtgtctg ggcaatccag 360  
 tcacggtgta catcactgac atgaactacg agcctatc 398

<210> 39952  
 <211> 309  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-H2

<400> 39952

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 gagcttgcaa ctgagatgcg ctctgttggg cacaacctta ctgaaaaaca gcttgaagac 180  
 atgatcaacg acatggatgc tgatggcgat gctaccattg acttgaccaa tgacctgaac 240  
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 gaggtctac 309

<210> 39953  
 <211> 419  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-H5

<400> 39953

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 cacagttact gatgtcagtg tgaatgcaag aggtctaata gcggctgtta tagctgtttg 180  
 gagcacagct ttgcaacaat attatgtcca ttttctccaa cgcaagtact ctctgaactc 240

attcaacctg ctgggccaca ctgctccagc ccaagctggg tcaactcctgc tagtgggacc 300  
 atttgcagat tacttgttga caggcaaaaag ggtggatcac ttcagtttct catcgcttgc 360  
 tctgtttttc ctggcactct catgcttcat cgccattggg gttaatctga gccaatca 419

<210> 39954

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-H8

<400> 39954

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 agacgctgaa gtaaatcaaa agagcttggg aaatgaacac gatgtaccaa acaatgggaa 180  
 aggttcctca acggtggtgg attctgactt cacatctgaa tgtaaaatca aaacaatcga 240  
 tcctatgaac gattctggga ttactttaaa agaaaagagc attgatcctt ctatcaatga 300  
 catgaagcaa gattctg 317

<210> 39955

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-H9

<400> 39955

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 atggaattta ttactgttg gtttacctag tacttgctta ccagccaggc gcccagggg 180  
 acgacggcaa agatacagtc tcgggtatta ggatggcaaa ggcagcgata gataaattct 240  
 actccaagta tatgttggga tcacgtaagc tgggtgcttga cccacattca acgatctttg 300  
 gcaaaaggat gcttgcataa agtgcgatca tgtgctattc caataacaca agatagatca 360  
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<210> 39956  
 <211> 273  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-051-Q1-K1-A7  
  
 <400> 39956  
  
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 gctcaacaac gtgaccgtcc tgctggtggc cctcctctc ctgagcagtg gcgttcagga 120  
 cgctgccgcc atgccaggca cgttgaacta ctgtcgcgat ggtggccgac gagccagact 180  
 gatagaacaa ggacctgtac gggcccgtcg ccaacgcaa taaatacacc cgcggtgctg 240  
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<210> 39957  
 <211> 118  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-051-Q1-K1-B1  
  
 <400> 39957  
  
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<210> 39958  
 <211> 253  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-051-Q1-K1-B3  
  
 <400> 39958  
  
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 ccccttggca gccaggatga cagaagcacc atttctgcc cgtgagaggc tcttcaagct 120  
 gcaacatcat ttccagaaca tgaccaagca cacgtgcctg aaagggcgct acgatgtgat 180  
 cacctacgtt gccatgcta ttgcacttgc tgccttcagc atgttcatga ttgggcgtgg 240  
 agtgtacaac atg 253

<210> 39959  
<211> 254  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-B4

<400> 39959

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gcggccttgcc cgggtgccgca gacggccatg ggtctgcgaa ggtgcccttg tggaaagatc 120  
cgttgagccc gagcaagtgg aaggaagagc actttgttct agcaagcctc tcaatgtggg 180  
gggttatttt ttatggtggt tacaagcttt ttagtggaag gaaggaagcc aagactgagg 240  
cgggatcacc acag 254

<210> 39960  
<211> 143  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-B6

<400> 39960

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gatcgctctg tcggactcgg aggagcacca ctttcgaatc gattgccgac gctgaggcgt 120  
gcaagaccta cccgtagtag gct 143

<210> 39961  
<211> 279  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-B8

<400> 39961

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caaataatta actttagtgc tgacaatact ttaagccggc ctatgctagc tatactagaa 120  
ttggttgat cccaagcaat gcattacaca tgcattgata ggaccgtgat atctatttgc 180  
taccactacc ctattacgac agtgatgctg gcgccaacaa tgatggtgtc atctccttg 240  
tgcatcttct tcacggcat atatagctag agtgagact 279



<210> 39962  
<211> 432  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-G9

<400> 39962

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ttcagacaag ccctgcgtc tgccctcca ggatgtgtac aagattggtg gtattggaac 180  
tgtaccggtt ggtcgtgtgg agactggtgt catcaagcct ggtatggttg tcaccttgg 240  
tccaactggc ctgactaccg aggtgaagtc tgttgaaatg caccacgagg cgcttcagga 300  
agctcttccg ggtgacaatg ttggcttcaa cgtgaagaac gttgctgtca aaggatctaa 360  
gcgtggggtt tggggctcca acttcaaggt tgacccttgc aaggaggctg ccagctttta 420  
cttcccaagg ca 432

<210> 39963  
<211> 230  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-C1

<400> 39963

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tacggaggac gacggtgtgc ctaggcctgc tggttctact actggcggcg tcgactgcta 180  
cggcacattt ctagatcgtg gacgtggacg agtacttgaa caggcgacg 230

<210> 39964  
<211> 253  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-C4

<400> 39964

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 gggtagccag catggcgccc agcagcagca tagcagtact gctgctcctc gtcgtcgccg 120  
 tcgtcctctc caacgtgccc tcctcggggc ccttgccctg ctggcgctcg tctctgctgc 180  
 accagtcgtc tccggtgag agtgagactg ataccgacag tagcagcgga gaatctttgt 240  
 cggcgtcgtc gtc 253

<210> 39965  
 <211> 251  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-C5

<400> 39965  
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 accgttggtt gcctcgtgcc gtggcctggt aagtcgatta ctgctcatca tggtaggagg 180  
 ccccgaccga ccgtgcaacc gtgtgccgac gctgtggctg tgcgccaatg aaatcacgtg 240  
 taagaacagg t 251

<210> 39966  
 <211> 417  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-050-Q1-K1-F5

<400> 39966  
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 ctggtcgacg ccgaccaggc gcccggcgac tactacatgg tggcctccac gcggttcac 180  
 cacgacgcca agtcgcctc cgccgtcatc cgctacgccg gctccagcgg cgcgccgcg 240  
 gcgccaaca tgaccgagcc accggccggc tgggcctggt ccatcaacca ggccaggctg 300  
 ttccgctgga acctgacggc cagcgccgcg cgcaccaacc cgcanggctc ctaccactac 360

ggccagatca acatcacccg caccatcaag gtcattgtct tccgcggcca catcgac 417

<210> 39967  
<211> 413  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-050-Q1-K1-F6

<400> 39967

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gactgtcaca tctctccgaa gagggcggag gggagggaga tgctcgtaatg ctgccggagg 120  
gctgctgacg aagatgcgga agctggtgaa gggcctcgcc aggcccgagc ccacgtggct 180  
catggccatg gaagaggcag caccagtgc atttcctcgc atgatgggaa gattaagggg 240  
tgtttgtttg ggattataat ctgtccagat tatataggcc aacaacttga acacccccta 300  
agaagatcga gtttctgatg atgtgtatgt taggaagcta aacaaaaaga acatccggat 360  
tcgctatgcc atgatgcaat caatggattt gatccaccac cagcacgagc ttt 413

<210> 39968  
<211> 348  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-F7

<400> 39968

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cggtttattg agatatgcgt gatgctttgt gctgatcatg gtccctgtgt atctggtgct 120  
cataacteta tagttactgc tagggccgga aaggaccttg tttccagctt ggtgtctgga 180  
ttattgacga ttggtccccg tttcggtgga gcaattgatg atgcagcccc atacttcaaa 240  
gatgcatgtg ataggagcct caccgcatag gagtttgttg aaggcatgaa aaagaaggga 300  
atccgggtgc ctgggattgg tcacaggatt aagagcaaag acaacagg 348

<210> 39969  
<211> 434  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-050-Q1-K1-F8

<400> 39969

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cggccccaac gtctccgtga agggctacga cgtgatcgag gagatcaaga cggagctgga 180  
gaagaagtgc ccgaacgtgg tgtcgtgcgc ggacatcatc tcggtgagcg cccgcgactc 240  
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gtccaaccgc gaggacgccg acaacctgcc gggcccgac atcgcggtgc ccaagctcat 360  
cgacgagttc gacaagcang gcttcaacgt cgaggagatg gtcgcatgc ttggcgggcg 420  
ccacagcatc ggcg 434

<210> 39970  
<211> 443  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-F9

<400> 39970

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atgatcgtea tcaccgcctc cctggtcatt tctcacagca aaactttgtt caacaaggat 240  
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agtcatacaca atggagaaac atcaagcagc atgtgctacc ttatggttct tcgaggccac 360  
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caagtatgtc aacagagaac aca 443

<210> 39971  
<211> 379  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-050-Q1-K1-G1

<400> 39971

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ggccgtggcg gcggcgctgt ccctggccgg cgtggcgctcc gcggagaagg cgggcggggt 180  
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caggagcgtg gccggcgcgga cgggtggaggt ggtgtgccgg cacttcggcg cgtccaagga 300  
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ggaccaccag gaggagatc 379

<210> 39972  
<211> 401  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-G10

<400> 39972

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ggcgacgacg accgccgccg tcatoctatg cctatgcgtc gtcctctcct gtgccgcggc 180  
tgacgacccg aacctccccg actacgtcat ccagggccgc gtgtactgcg acacctgccg 240  
cgccgggttc gtgaccaacy tcaccgagta catcgcgggc gccaaagtga ggctggagtg 300  
caagcacttc ggcaccggca agctcgagcg cgccatcgac ggggtcaccg acgcgaccgg 360  
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<210> 39973  
<211> 411  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-050-Q1-K1-G11

<400> 39973

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 gtacagaatc aggtggagga agctgggtgc tgtgccaccg actcctgtgg cgcctgcgcg 180  
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 cagacctgtg gtggtgacgt tgttacaact cgccaggagg cactccagcc tacgctcgtg 300  
 aggagaagcg tagatggaac cacgaaagga agcgacagta ctgcggcgca ttcagcaggg 360  
 aaggaacagc ggggtggaagt agtgactagg cgtggnntag atatcgacac g 411

<210> 39974  
 <211> 412  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-G12

<400> 39974

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 cggccagcgc ggcgcggccc aaccgcagg ggtcgtacca ctacggccag atcaacatca 180  
 cccgcaccat caagctcgcc atggggccgcg gcaaggtcga cggcaaggag aggttcgcct 240  
 tcaacggcgt gtcgcacgtg gaccocgaaa ccccgctcaa gtcgcccag tacttcaacg 300  
 ccagcgacgg cgtgttcaag tacaacctca tcggggacgt gccgcccttc aacacggccc 360  
 ccaccaagat ggcaccaaac gtcatcagcg ccgagttccg cacgttcac ga 412

<210> 39975  
 <211> 343  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-G2

<400> 39975

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 cccaactcgc tggatgatga cttcgtgaac aacggggagg tgtccggggg cacgctgctc 180

aactccaagt tcttccacat gaacatgtac cgggtgcaagg acatgctaata caaggacgtg 240  
accgtgacgg cgccccggga cagccccaac acggatggca tccacatggg cgactcatgc 300  
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<210> 39976

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-G3

<400> 39976

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cacactgaac ccaataatcc gatccacag aaacttttct ctcggtccgt tcgatcgatc 180  
gctgccgtgt cgtttgccag acaccatcag caccctaaac catggcctgc aacctggctc 240  
aatgcgccac cgccgccgag ggcaccgtcg cgcccgccac ccctcgccct gctgcgtacg 300  
cgtccgtctc cttctccgag aggaagccgg cggggcgag cctgcggctg cagcggcagg 360  
cgtgc 365

<210> 39977

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-G5

<400> 39977

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atgaagaaag cagtagaaaa ggatcgatca acagttgggtg tttcagaact atcaaagcta 180  
ggtttgatgg aaataactag aaaaaggggc cgaccaagcg ttactttcat gatcagtgg 240  
ccatgtacat gctgccatgg tactggctgt gtggaagctc ttgacacatc gttttcaaag 300  
atcgaacgtg aaatatgtcg acgtcttgcg gcctctcgac gaaaatcaga ccctgagaaa 360  
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 ccacggacga cctcgtccag ctcttccccg cgcgcgccag gagaagggtc cagaggggtc 180  
 tgaagaggaa gcccattggca ctcattcaaga agctgcgcaa ggcgaaaaag gatgctcctg 240  
 ctggtgagaa gccagagcca gtcaagacac atctccgtaa catgatcatt gtccttgaga 300  
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 <223> Clone ID: LIB3075-050-Q1-K1-G7  
  
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 ccgttgggga taactttcag gccttgctcc cgtataacct gcgcttcctt tgccacccct 180  
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 <223> Clone ID: LIB3075-050-Q1-K1-E1  
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 agctgcgcaa ggcgggcatc atcgacatgc agttccgaag ggtcaagtgc aagtacggct 180  
 ccaaggtcac cttccacctt gaaaaggggt gcggccccaa ctacctggcg ttgctagtca 240  
 agtacgtcga cggcgacggt gacattgtgg cggtaggacgt caaggaaaag ggctccgaca 300  
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 <223> unsure at all n locations  
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 gagatcttcc aggccgtgct ccgtgggaac ctgcgcttcc ctccgcgcgc cttcgcgcgc 180  
 gtctcgcgcc aggccaaagga cctcctccgc cgcattgctt gcaggacgt ctggcgccang 240  
 ctctccgccg agcaagtcct gaggcaccca tggattgtga ctcgcggcgt aagtgtgcct 300  
 ggcggtagac tggtttagat gctccgccgc atccgatgtg tacatagtgg cgtcctccat 360  
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442

<210> 39983

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-E2

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aagaccacga ggccgtggta agaagctcca agaggaatgg gctgttccac tgaaatctgt 180  
ggaggacatt agtgagcgtc tcacaaactt gtgtcaaggg aaactcacia gcagcccatg 240  
gtcagaattg gacggtcttc aaccagagac aaagattatc gatgaccagt tgggtgaatat 300  
taaccagaag ggtttcctta caattaacag ccaacctgct gtaaatggag agaaatccga 360  
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<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-E3

<400> 39984

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ttgttgatga ggcacacaat tctggacgtg aagctatccg ttctgtggca gaaaatgaag 180  
atacagaaga aactgaccat aagaaaccaa agcttgaagc tgatgcagtc gatacgaact 240  
ccaacggaga accgaagcac gacgagaaaag acgacagcaa ggtggaagaa gaggagctga 300  
agactgagct cagcctacag gagagcgaca gagctagctc tgagaaggaa gcacagtccg 360  
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<210> 39985

<211> 411

<212> DNA  
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 <223> Clone ID: LIB3075-050-Q1-K1-E4  
  
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 gatcgggaga cgcagaggtc ccgcggtctc ggcttcgtca ccttctccac ggaggaggcg 180  
 atgcggaacg ccatcgaggg catgaacggc aaggagctgg acggccgcaa catcacgctc 240  
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 cgtggaggcg gcggctactg cgggtggcggg cgccgtgatg gcggcggcgg ctaccgcggg 360  
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<210> 39986  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-050-Q1-K1-E7  
  
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 gttaaagaga tgggcgacaa gaaggcggtc accagctgct aattatgggc ctgccacga 180  
 ccatttttagt tgctgtcccc tggcactacc gggagggtgc catgccagga ttcaaccata 240  
 taaaggatcc gatcagtttg caactgggca gggggactgg tatacctatg acgacgctgg 300  
 cttcataccg gacagaacaa caggtattga aatcattgtg aaaaacaata aatggattgg 360  
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<210> 39987  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
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cgatcggcgt ggtgctctcc gcgaagacca ccctggggga ggagttcgag ggccagatcg 120

tcgccttcga tcgacctcc aacctcctcg ttatccagga gggcgtgggg agggcggaga 180

gcggggagcg gcggaacgtg aggggtgctga aggcgaacta catccgggag ttctctgtgc 240

tcagcaaggg agacgacct ctcgacctcg ccggttgcg gctggacctt aactccattt 300

atgcccggga ggatgctgca ctgangcaag cggagattga agctgagaga attgggtgtt 360

gtgtcacccc agaagctcaa aatatattcg atgcg 395

<210> 39988

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-F1

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ccccaggca agaacatcac ggccacctat ggcaaggact ggctggacgc taaagcgaca 180

tggtatggca agccgacag tgccgggtccc gacgataacg gtggcggtcg cgggtacaag 240

gacgtgaaca agccccctt caatagcatg ggcgcatgcg gcaacatccc catcttcaag 300

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ggcaagcccg tgggtggtgca catcacggac atgaacta 398

<210> 39989

<211> 460

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 39989

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gtaaaaaatc cttttgaaga tgatcaggtt gttggcatta caaactacat cgattttgga 180  
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 ttggctgcaa gttggcaagc taacaaaaac tttctgctga agggaaagct tggtccttcc 300  
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 acagctgtga atgatcattc aaagggcaca acatcgatatg gatttggcct ccgtgtcgag 420  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-F11

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 tcaccagcca cgcaaggag gcgaacttcg gctacgcggg gccggccagg tgcaggcgct 180  
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 cttctgccgt ttggccagg catggctatc cgteccaccac acgggcgacg gtcacgccgt 300  
 acgtgggtcc gccacatcca cggcttctcc cgcgccgtcg gccgtacggg gggaccgtcc 360  
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<210> 39991  
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 <212> DNA  
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<223> Clone ID: LIB3075-050-Q1-K1-F12

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 tatgtacttt catcttttga agttgatgta ccattctcct gtgacatctg gttaccacca 180  
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 cagcacagtg aaaatatgcc taaacagcta ctctgatctc agcgccctga tcttttagaa 360  
 ggcggtgcttg cacggcggtg tcttttcttg taaagggttg attctcagtt catgtcttac 420  
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<210> 39992  
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<223> Clone ID: LIB3075-050-Q1-K1-F2

<400> 39992

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 agctgctggt gtggggcgctg cccgatgaag atgatgttgt agacgagcgc cgcatggcc 180  
 gcgcccgcga gtggggccgac ccaatacacc cagtggttct tocagacgcc ggtgacgacg 240  
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<210> 39993  
 <211> 406  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-F3

<400> 39993

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 ggagatgaag aaggctctct gcgcgcgcct cgtcgccgcc gccttggcca ccgacgtgct 180  
 ggccctcggtc gcctccgagg cgccctccga ggcgcccgcc ggcgcggccg gtggtgcggc 240  
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 cttcttctct gcctactacc tgcactgagc gacgacgcgc ggggcggcaa cgttgggatg 360  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-D8

<400> 39994

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cttagtagta tatatgggta gcggagcatg ctctctcatg caatatatat aaacttaatt 180  
agcttgctgc tgcaagttca tagcccaccg agccggatga attgtaggga attg 234

<210> 39995  
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<212> DNA  
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<223> Clone ID: LIB3075-050-Q1-K1-C2

<400> 39995

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caagaccagc tcttctgttg agaagagcta cgagctgcct gacggacagg tcatcaccat 180  
tggtgctgag cgcttccgct gccctgaggt cctcttccag ccatccttca ttgggatgga 240  
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tgacaggatg agcaaggaaa tc 382

<210> 39996  
<211> 394  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-C3

<400> 39996

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 tcactatgaa gcagttggtg tcattggaaa tttggttcat tcatcaccaa agatcaagaa 180  
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 agaaagccaa agagaggctg ctttgttgct agggcaattt gcttcggccg actcggattg 300  
 caaggtccat attgtgcaaa ggggtgcagt ctgtccacta attgaaatgc tacagtcggc 360  
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<210> 39997  
 <211> 446  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 ttcttgagga tgagttacta ctttgagatt agaaaggagt ggccaggaac tcaatgatgt 240  
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 atttgttttg aattgtcatt gtacgtcggt tatgacatan aactgtttat tcatcacata 420  
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<210> 39998  
 <211> 453  
 <212> DNA  
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 <223> unsure at all n locations  
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 <400> 39998

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catgctccca aatcatcctg ctacaaaact tggtagagca aggtacacaa caaagggttc 180  
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<213> Zea mays  
<223> unsure at all n locations  
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<210> 40000  
<211> 419  
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<213> Zea mays  
<223> Clone ID: LIB3075-050-Q1-K1-C9  
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tgtgtccgag ctctccaaca aggatttcga ctcatatgtc ctttctgagt caagcttggt 180  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-050-Q1-K1-D12  
  
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 acttaattag cttcttttgt tacacaggac aggacaggac acaaaaacac cctctttttt 180  
 gttgtagata taaacaaatt aagggagtca cagtacacag agagagttgg tgttcttaga 240  
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 aataataata ataataataa gatcgtcgc 329

<210> 40004  
 <211> 327  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-050-Q1-K1-D3  
  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3075-050-Q1-K1-D4  
  
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<210> 40006

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-D6

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tacacatggt ttgaccgtga tcttactgta gctggtagag tgattatacg ggagaagaat 180  
gatggcgcggt tctcttatgc acacaagctt gtacgggtac aggaaccaat tatgcggata 240  
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<210> 40007

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-D7

<400> 40007

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aagccgaaga aaaacgtatc aaacagagga aagcacgtga tgatttcctt gcaatggtgg 240  
aagaaagcaa ggagcttaca tcatcaacaa gatggagcaa agcaatactt atgtttgaag 300  
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377

<210> 40008

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-C12

<400> 40008

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 gggttcgcca tcaccggctt catcatcacc aagatgacgg ccaacttcac cgaggaggac 180  
 ctcaagaact ccaagtctgt ccaggaacac aagaagcgt gaccaaccgg gtggagtcgt 240  
 ccgaatcgcc tgcggatgaa aaattagccc tctatctttt ttgtcttttt tttttatcta 300  
 gatgcgtgca ctctattgta ataatgtaat aagaggcaat tggattgatc caacagcaac 360  
 cggcttctga ttttgatccg cttecgctgac atatgcatg 399

<210> 40009

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-A9

<400> 40009

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 ccgccatggc gacttcctca ggaccaaagg aggcgccagc gaataaccct gggctccaga 180  
 ccgaggtcga ccccgccacc aaaggctact tcttgcaaca aacgatgtta cgtgtgaagg 240  
 acccaaaagt gagccttgac ttctactcac gtgtgatggg catgtcgttg ctgaaaaggt 300  
 tggatcttga agagatgaaa ttcagtttgt attttctagg ttacgaggat gtgaccttag 360  
 cccctgatga tcatatcaag cggactgaat ggacttttag gcaaaaagct actcttgagc 420  
 tcaccacaa ctggggcacg ggaaatgacc ctgaat 456



<211> 408  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3075-050-Q1-K1-B12  
  
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 cagcattcgc ttgagggtgcc tgacaaagca caccatcatg caggctagcg ataggttcaa 240  
 cataaactct cagcttgagc atcttcaagc caaatatgtt ggtacagggc atgctgattt 300  
 gtctagattt gaatgggctg taaacatcca gagagacagc tatgcctctt atattgggca 360  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-050-Q1-K1-B2  
  
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 ttccctgtga agaacaaagc agaaatattt cgtctgagag gtgattttct gttaaaaatg 180  
 aacgaatgcg agactgcaaa tcagtccttat tcaaatgcca taactctttt taagcatttg 240  
 cccaaaggat ggattagctg gggaaattac tgtgatatgg tttttaaaga aacaaaagat 300  
 gaggtttggc ttgagtatgc agtcagttgt tttttccaag gcatcaaata tggagtttca 360  
 aactcaagga gccatctagc tcgaattctc taccttctta gctgtgatgg acaaaatgaa 420  
 cctgttggaa 430

<210> 40014  
 <211> 387  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-B3

<400> 40014

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ccgttcccaa gggctcctgg ttagtgcgac agagtgttgg aagcaccctt tgtctgttgg 180  
gaaaggctgt tgattgtagt tacgttcgag gtcctgcata cttggagggtg gacgttgaca 240  
ttggatcttc ggcggtagca aatggagttt tgggtcttgt ttttggtgtg gtgacaacat 300  
tagtagttga tatggccttc ctaatacagg ccaacacata tgaggagcta ccggagcaag 360  
tgataggcgc agctcgactg gctcatg 387

<210> 40015

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-B4

<400> 40015

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ctactgcgac acctgccgcg ccgggttcgt gaccaatgtc accgagtaca tcgcgggcgc 180  
caagggtgagg ctggagtgca agcacttcg caccggcaag ctcgagcgct ccatcgacgg 240  
ggtgaccgac gcgaacggca cgtacacgat cgagctcaag gacagccacg aggaggacat 300  
ctgcgaggtg gtcttggtgg agagcccgcg caaggactgc gaccaggtgc aagcggacag 360  
ggaccgcgcc ggcgttctgc tcaccaggaa c 391

<210> 40016

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-B5

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cttcacataa cattgctcat ggggtgaacc taaagaaatc ccctgtactt cagtacctgt 120  
 attatcttgc tcagattggt ctagcaatgt ctccttaag taacaactca ctgtttatcg 180  
 actatcatcg gaaccctttc ccaacatttt tcttaagggg tcttaacgtg tctctttcga 240  
 ctgacgaccc tctacaaatt cacctgacga aggaaccttt ggttgaagaa tacagtgttg 300  
 ctgcttcact ttggaagctg agctcatgtg acttgtgtga aatcgctaga aattctgtct 360  
 accagtccgg attctctcac aagctcaagt ctactggat cgggagaaac tactacaaga 420  
 aggggccgga gggcaatgac atccaacaga caaatgtttc 460

<210> 40017  
 <211> 441  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-B6

<400> 40017

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 tccaatcttc ttactgggt cctccgctgc ttctagtcac gcattctaat ccggagttgc 180  
 cagcattcgc ttgaggtgcc tgacaaagca caccatcatg caggctagcg ataggttcaa 240  
 cataaactct cagcttgagc atcttcaagc caaatatgtt ggtacagggc atgctgattt 300  
 gtctagattt gaatgggctg taaacattca gagagacagc tatgcctctt atattgggca 360  
 ctatccaatg ctagcatatt ttgccattgc tgagaacgaa tcgatcggaa gagaacgtta 420  
 caatttcattg cagaaaatgc t 441

<210> 40018  
 <211> 409  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-B7

<400> 40018

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aatggtggcg gctgcgggta caaggacgtg aataaggccc ctttcaacag catgggcgcg 180  
 tgtggcaacg tccccatctt caaggacggt ctaggttgtg gatcctgctt cgagatcaag 240  
 tgcgacaagc cagcaaagtg ctctggcaag cccgtgggtg tgtacattac ggacatgaac 300  
 tacgagccca ttgcggcgta ccacttcgac ctacgaggca ccgcgttcgg tgccatggcc 360  
 aagaaggggtg aggaggagaa gttgcgcaag gcgggcatta ttgacatgc 409

<210> 40019

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-B8

<400> 40019

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 ctcgggatcc actgcttcag gatcactagg aaaaaggcat agttcctccg tccacgggca 180  
 tcaacgttgc cctggattgt gtaatcaatc acaactcaca aggtggagcc tgacagacaa 240  
 gcaatttttc atatttaatg gatgctgctt cctgaatact cacatggatg acgccccccc 300  
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<210> 40020

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-B9

<400> 40020

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 tcagaaacag tgaattggat aactgtaaat actaagccct gtcccaagtg tcacaaacct 180  
 gtggagaaga atggtggctg caacctgggt gcatgtatat gtggacaagc attctgttgg 240  
 ttatgtggtg gtgctacggg tagagatcac acgtgggtcaa gtattagtgg ccacagttgt 300  
 ggccggttca ctaatgatca gactaagaag accggacaag cagggaagac ctctatagat 360

atatgcacta ccacaacaga tacaag 386

<210> 40021  
<211> 396  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3075-050-Q1-K1-C1  
  
<400> 40021

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ttgacgggca gggcccagct gtgtggagca agaactcctg caccaagaag tacgactgca 180  
agatccttcc caactcgctg gtgatggact tcgtgaacaa cggggaggtg tccgggggtca 240  
cgctgctcaa ctgcaagttc ttgcacatga acatgtaccg gtgcaaggac atgctgatca 300  
aggacgtgac cgtgacggcg cccggggaca gcccacacac ggatggcatc cacatggggcg 360  
actcatgcgg gatcaccatc accaacaccg gcattg 396

<210> 40022  
<211> 398  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3075-050-Q1-K1-C10  
  
<400> 40022

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gcaagcacta tgggcgacag tcgatggggc agacgatgtc ggtgggcggg gaaggcgcgga 180  
cggcgggcgaa gaaggaggcg agcaagaact ggtaccggcc ggccaagtcg tcgtcgtggc 240  
gcaagatccg gtgctcgcag aaggagtgcg cgggtgctgcc ctacaacacg tgccagagcc 300  
ccagcaaggc agagtcgtgc agctacttcc agaagacgca ngacggcacg gtgacgatcg 360  
gcatttatgg caaggagaag gcgactgtga cgggtgtcg 398

<210> 40023  
<211> 407

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-050-Q1-K1-C11  
  
 <400> 40023  
  
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 tagtctgacg ctccaaagtt gatgccatca aacacgaagg ccaggggaatt gatggtctgc 180  
 gtcccggcga caaactgaac cgagataaaa gatgtctaata tcagtgtctg aatcttgtga 240  
 aatgcttgcg tatggagcgg cgttggttcg atagccaggc cagggcacgt ccttaccggg 300  
 atgcctctgt gaatgacttg gatcacgggc acgtcgcttg tgaaaatgcc agccccgaac 360  
 ctcatagcaa gtcccagcac gacggtgaga cccatgcccc ggacaat 407

<210> 40024  
 <211> 209  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-050-Q1-K1-A8  
  
 <400> 40024  
  
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 gaaaagatag ggaaacgtca ggtcatgac aggccgtcat ccaaggtgat catcaagttc 180  
 ctgacggtca tgcagcgcca tggctacat 209

<210> 40025  
 <211> 369  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-049-Q1-K1-H2  
  
 <400> 40025  
  
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 ggaataacaa cagttatgac aaatgtcgtc aaaaattgac cttggggatg cagactatct 180

taagtatcat ggtatgcaag agtttgatca ggcaatgcaa catcttgagc aaaaatatga 240  
attcatgaca tctgatcacc agtatatttc ccggaacat taggaggata aggtgattgt 300  
gttcgaaaag ggagatttgg tatttggtgtt caactttcac tggcacaaca gctattttga 360  
ctaccggat 369

<210> 40026  
<211> 457  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-049-Q1-K1-H3  
<400> 40026

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ggggccatgg ccaagcccc gggtcagacg gccgccatca tcttctcgt gtcctcgcg 120  
accgcgtcgt gcctccacac cgtcgacgcc gccgctttag ggttttgctg gggcaagtgc 180  
agcgctcggg gcgcgcgggc aagcgcgcg cgggcggtggg ccgcgtgcat gagctcatgc 240  
ggcctctgct gcgaggagtg caactgcgtg ccgcgcgaca tccatgactg ccctgctac 300  
agcaacatgt tcaccaccgg cccaagaag atgccaagt gccctgaga ctgagactgt 360  
gaggccggct cacactgcgg catccatggg actgcgactg ctgcctacaa ctacgatccg 420  
atccatgctg ggccagacaa ccagttatgc atgttat 457

<210> 40027  
<211> 420  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 40027

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ggtcctgcga gcaagagcaa tcggccttat gccatgatt gaccagggtg aaaaggatga 120  
caagataata gcagtctgtg ctgatgatcc tgaatatcgt cactacaacg acatcagtga 180  
gctgtctcct catcgctgc aagagatcaa gcggttcttt gaagattata agaagaatga 240

gaataaagag gttgctgtcg atgcattctt gcctgcgacc acagctcgag aggccattca 300  
 gtactccatg gatctgtatg cgcagtatat ttgcaaagc ttgaggcagt agattggaag 360  
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<210> 40028

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-H5

<400> 40028

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 cggatccctt tatttggaag cgctatgctt ttatcactgt tgcttctatt caagtttctc 120  
 tcaggagatg tggccaacgc tgagctcact gcctactttt tcattctagg cattgttgct 180  
 ctctccgcaa cactgcttcc ttctataaaa cgttttcttc caaaagagtg gaatgataat 240  
 ctcatcgtct ggggggctcc attctttcac tcaactctcg tggagttcac aaagtcccag 300  
 attgttgctt caatacctgg atttttcttt tgcttggtgt atgcgtcaaa gaagcattgg 360  
 cttgcaaaca atgtcctggg attggctttc tgtattcaag ggattgagat gctgtcattg 420  
 ggatcattta aaactggagc cattctctt 449

<210> 40029

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-H8

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 aagaagtatc cgggcaagtc gtctctggga accctgctta ttgctcgccg gatgctagcg 180  
 ccgccgtgga ctgcgcggct ccgagaagtc gaggtcgtcg cgacatatcc caggaaacctt 240  
 cggacttgga acgaagctgt ccataatatg gaaagcatga ttgggacgaa ggtcgaatca 300  
 attctgaagc tatgcgcaag gaag 324

<210> 40030  
<211> 451  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-H9

<400> 40030

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ggaaatatgg taaatccggc taccctggaa caaatattcg gtgtctcttc ttgggctgca 180  
ttaccagccc agttagcatt ggagcagttt gacaacgaac tctctgagga agattaacga 240  
agttgtaaat gaaattagga gccagaggtg ctcatcttg aggataagac tatgcacaag 300  
gggcgaacca tctgggtgatt tttccgggtc atttctaata gaggacaagg cacctggcgt 360  
cttctcctac gacgagtttc tcgtgcatgt gcacaggcag atccaaagca agatgacctg 420  
agggccaggc gaatgcaagg caacatgaac t 451

<210> 40031  
<211> 168  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-A1

<400> 40031

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ccgatatact atttgatgca agcggactgg tcaaattggc agattttgga cttgcaaagg 120  
agatgtcaat tttaggccag gcaaaatcta gcaagggaac tgtctact 168

<210> 40032  
<211> 431  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-A10

<400> 40032

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gaactgttgc agttcggctt ccattctgag agtgccaatg attatgatta cactcaattt 120  
cctgtctata tggatatgtt ggacaaaaaa ataggatctc tgatagccga atcagatgat 180  
ttaagggtta cagttcaaag caaagattct ttactacagg ttgagagggc caaaattgag 240  
gagttgatgc gtaaatacaga tggctctagaa gcttcattga gccaaaagga ttcccagata 300  
gggttacttc gccgggacag agcatccaat cagcagagca gatctataaa tttgcctggc 360  
acttcagaga ttgagcaaat gaatgacaaa gtaagcccag ctgcagttgt cactcagatt 420  
cgaggcgcac g 431

<210> 40033  
<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-A11

<400> 40033

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catatacatt gatattttctt cttagaggaa ggttgccgtg gcaaggttat cagggcgaga 180  
acaagagttt ttttgtttgc aagaagaaaa tggctacctc tccagatcta ttatgctgtt 240  
tttgcccaac tccattcaaa cttttcctgg agactgtgac aaacatgaaa tttgatgaag 300  
aaccaaatta ctcaaagctt atttcccttt tcgatgaatt gattgagccc cagcatttga 360  
ggcctattag aattgatggg gcattgaagt ttttttttca ctacaagaaa tgacatttct 420  
attttgtata caatta 436

<210> 40034  
<211> 282  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-A12

<400> 40034

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ctcagccctc atgcaagccg accgccgacg taccaccgcg ccaacccgag agaaagatgg 120



agatgatcaa gaggatcctc atcgccgcgc tcctcgtagt cgccgtctcg gccaccgcag 180  
 tgctggcctc caccgaggcc gccgcgccg gcgccccagc cgtctacgag tcgtatgcgt 240  
 gcgccgaagc ctcgatggc gccgtcggct ccggagtcgg ac 282

<210> 40035  
 <211> 390  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-050-Q1-K1-A3  
 <400> 40035

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 tgggtccttc gacatcacca agttgggcgc ctccggcaat ggcaagacgg atagcacgaa 180  
 tgctgtgcag gaggcgtggg catcagcgtg cggcggcacc gggaagcaga cgatcctcat 240  
 ccccaagggc gacttctctg tcggaccact caacttcaca ggcccatgca agggcgacgt 300  
 gaccatccag gtgaatggca atctgctggc gaccacggac ctaagccagt acaagatca 360  
 tggtaattgg atcgagattc tacgcgtgga 390

<210> 40036  
 <211> 397  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-050-Q1-K1-A5  
 <400> 40036

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 taaagaatta cagaaactct ctgcctctgg tgacagtaaa agccttctg aattgctagc 180  
 tgagctagat gggctaagga aagagcatct taatttacga tctcaatttg aatttgagaa 240  
 aaatacaaac atcaagcaag ttgagcagat gcggacaatg gaaatgaact tgatgaccat 300  
 gactaaacaa gctgagaagt tacgaggtga tgtggcaaat gctgaaagac gggcacaggc 360  
 agctgtggct aaagcaacag ggcacgcagc tggtgca 397

<210> 40037  
 <211> 359  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-050-Q1-K1-A6  
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 gcgtggccta ccggtgaacg ccggggcggac acacgggacc gcgcagccgg cgagcacggg 120  
 atcgcacatc acgggcgcg ccaaaatgcg ggagccgtgc gctgcgaagt gcggaagcgc 180  
 ctgttaattg ctctccctcc agtgccgcgc agtgcgaca gggttttagg aagggggcga 240  
 caccggtatc gccattcgcc agccatggaa tccgcaacgg cggccgtccg cagcgcgtcg 300  
 ctagcccggg cccgggcgcg gccgctcggt cacaggcgcg cgcgcggggc gggtcgcgt 359

<210> 40038  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-050-Q1-K1-A7  
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 gggggaccgg ggaatctctg ggggttcggt cctgcccga tccggccaaa ccaaccccg 120  
 ttgctctgca tggtaactgga cggcactgcc acgtgcttcg gcattgccat caaccaaacc 180  
 agggcgctgg agctccccgg cgtctgcaag gtcaaggcgc cgcgctcat ccagtgcaca 240  
 ggcgtccctg cggcacctgc accgacgctt ccggacgagc cagcagcggc agcggaagat 300  
 gaagaagccg acgcagctgc agatgcccct tcagcaaatt gagcctcaag ctccacaaac 360  
 tcaaagaatg cagcgagctt actgcttctc atctgcgcat tgctgtatgc cttctaataa 420  
 gtggtgatac aac 433

<210> 40039  
 <211> 387  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-H11

<400> 40039

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tggtcctccg gataaggggtg ccgaggctct tattaataaaa gttttggcac catcaacaca 120  
aaagacaaaag ttaattgagg cgaaagagaa tgatgttgat gggagggtt actacacttt 180  
tgagttcaca gctcaggctc caaactacac aagacatgca cttggtgcta ttgtaattgc 240  
aaatggcaaa ttttacacat tgaccactgg agcaaacgag agaaggtggg aaaagatgaa 300  
ggatacgctg catactgttg tggattcctt caaaatcgaa aatagaatat gagtgccctga 360  
attgctgtgc tgtttttcct tcggtga 387

<210> 40040

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-F5

<400> 40040

cgctgggctc cggccgcgcg ccgtcgctgc ggcagcgctg ctccgaggcc gtcggtttgc 60  
gtcggtgccg ccgtcgcgg cttcccatc ggtgcggctc gtgtcccgcg cggttaagaa 120  
taaagcaagt gcaatctatg acctccaaag gaatagaagt aaccttgaat cgttattctg 180  
ctacgacaaa tctgtcccag aggagaatat tggaaaaccg tccggtctag atctggaaaa 240  
gaaggatgtc gggggcaacc ctccctgctc aagctgtgaa gctaaaggcg ctgtgctgtg 300  
cgcaacatgc gctggttcag gcttgtacgt cgactcgata ctagagagcc aagggatcat 360  
cgtgaaagtc agatgcctag gctgtggaag aactgggaac atcatgtgct ccaagtgtgg 420  
aggccccggg catacctgaa tgataaaaag cttgg 455

<210> 40041

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-F7

<400> 40041

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 gccagactgt ccccatctac gagggatacg ccctcccca cgccatcctt cgtctcgacc 120  
 tggctggccg cgacctcacc gactacctca tgaagatcct gactgaacgc ggctactcct 180  
 tcaccaccac tgctgagcgg gaaattgtca gggacatgaa ggagaagctc gcctacattg 240  
 ccctggacta cgaccaggag atggagactg ccaagaccag ctcttctgtt gagaagagct 300  
 acgagctgcc tgacggacag gtcacacca ttggtgctga gcgcttccgc tgccctgagg 360  
 tccttcttca gccatccttc attgggatgg aagct 395

<210> 40042  
 <211> 367  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-049-Q1-K1-G1  
 <400> 40042

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 aagtgatgaa ccgtcgcaa ccttgtttct cttgcacttt aagcagctaa ctgttcccgg 120  
 gtaggacgct ctctgcaat aaatcatggg agctgttaag aacggtgggt cagttgctct 180  
 catatgggtct gaagaaacgg tgcttcagtc tttagcattt tgaggaggaa acgtgaaact 240  
 tactggtcag ctgaaagcta taaacattgc catggccctg gactggaagc cccaactttc 300  
 ccaagcctgt agaaagcgcc atgtgcctct acagaagcca ccgcgtgatg accagcttca 360  
 tccggca 367

<210> 40043  
 <211> 374  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-049-Q1-K1-G10  
 <400> 40043

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 cgatctactt aaagactggg atggtagctc caaggagttc aaagaactgg acatcgaaca 120  
 gttcaaaagg gcccttgctc aagtggactc tcaagtcaag atgctcccag caacagctca 180

ggttgctgca caagagggaa gttacctagc ggattgcttc aacagaatga agacgtgtga 240  
 agaatatcct gagggtccta taaggatcag aggtgcaggg cgccatctgt tcaaaccttt 300  
 caggtacaag catcttgggc aattcgctcc actgggggga gagcaaactg cttaccaatt 360  
 ggcacgggac tggg 374

<210> 40044

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-G11

<400> 40044

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 tgtgctctcc gtcctgcgtg gtagtaaaca aaagggaaaa agtcttttta aggaacttgt 120  
 gatgctctgg ctcttctgtc cattgctgag ggacatcctt agcctttgtt tagtagtatg 180  
 gtttggtact ttgttctgtc atcactcgtt tatctatccc taatacatgc cgccatgatt 240  
 gtactcccaa tgacgcgcag atcatttgc tttgtttgtc tgctcgaacc tcgaagtcgt 300  
 ctatgctttt cagattattt tgggcatgtt ttttaatt 337

<210> 40045

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-G12

<400> 40045

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 ggctgaaaga gaggctatga gtgctgctga aaaggcagaa agaaaggcac agcttagaga 120  
 caagaaacgt agggaagaga tggagaggct tgagaaagag aagcaggctg atatcaggag 180  
 ctacaagggt ctaatggtcc aagagaagat gacttccaac aagcaaactg cttctggcag 240  
 caagaccctg caggaacttg aagaagactt tatgtgagag gcggacatta taaatgccat 300  
 gctgaagatt tccttgaact gcttctgtcg aagacagaag gggtaggaca ggcttgtgag 360  
 atactggatc taaatgactc atgggc 386





<223> Clone ID: LIB3075-049-Q1-K1-G9

<400> 40050

aaaaaaaaa aaaaaaaaaa aaaaaaaaaat aatttattaa taataaaaaa acaaaaaaaaa 60  
aaagaaagaa aaaaaaaaaa aaggggaggg aaaaaaaaaa aaaaaataa taatttaa 120  
aaaaaaaaa aaaaaaaaaa atataaaaaa aggggggccc ccttttttaa tgcaaatttt 180  
ttttccccc tttttctaca aaatatTTTT tttttttttc cctcaaaaaa aaataatcgc 240  
ccccgcgtt taatacccc tcctttgaaa aacccccctg tcccccaat tatatccttt 300  
ttaaaaaaa tccctttttt a 321

<210> 40051

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-H1

<400> 40051

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ggatcccttc ggacttcgc agattccgc gcgggggtgt ttgatttga tgagaggagc 120  
gcggcgggcg gatggggacc ccttcgcagg gctcggcgac cgtgacggcg gcccggtcg 180  
acctctgcgc gctcgacctc atgccgtct ttgccaagga gatgatgcc ggcgcgctcg 240  
ccggcgctt ctccaaaacc gccatcgcc cgctcgagcg cgtcaagata ttgctgcaga 300  
ccagaacaaa tgagtttggg tctcttgag ttctcaaata attgaagaaa ctgagacaac 360  
ttgatggagt catgggggtt tacaaaggaa atggtgccag tgtgatgaga attgtcctta 420  
tgctgcatta catttcatgg catatgagc 449

<210> 40052

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-H10

<400> 40052

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gtgggtcatag gcaagggccg gctggaaact tactaaatca tcttcctcgc gctcctcgcg 120  
accgagtcac gccttcacac cgtcgacacc gccgctttat ggttttgctg gggcaagtgc 180  
agagctcagt gcgcacggtc aagctcacac aggacatggg ccgcgtgcat gagctcatgc 240  
agcctctgct gctaagagtg caactgcttg cccaacgaca tccatgactg cccctgctac 300  
agaaacattt tcaccacctg tccaacaat atgcccaagt 340

<210> 40053

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-E11

<400> 40053

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aagtatgctc tcaaatatga aaatgatgct ggcaagaagg aaattcagct gcagcttgag 120  
aagatgaaga aatatgcttc tgttatccgt gtcattgctc ataccagat taggaagatg 180  
aaggggttga aacagaagaa ggctcacctg atggagattc aggtcaatgg tggtaaccatt 240  
gctgacaagg tggactacgg ctacaaattt tttgagaaag aggtccctgt tgatgctgtc 300  
ttccagaagg atgagatgat tgacatcatt ggtgtgacca aaggtaaagg ttatgagggc 360  
gtggtcactc gttgggggtg caccgcctt ccccgcaaaa cccacagggg tctccgcaag 420  
gttgcttgta tccgtgcatg gcatcctgct aggggtct 457

<210> 40054

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-E12

<400> 40054

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ggatcaagac taggacgaag aaggccacac gcgagttcct gtgcttgaac cccaggttct 120  
cctccaggct cagctggagc tccacctgga agaacacacc ctgaggccgt gccaaagagca 180  
actacttgga caacgtcaca cacttcagct tggacaaact gaagctgcag agggtaacgc 240

tctagatcat aacatacgcg tacctgacca agtgcacatg catcttctctg tcaccctcca 300  
acgtcacaa 309

<210> 40055  
<211> 458  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3075-049-Q1-K1-E2  
  
<400> 40055

atcgactcca tgggtgaggt tgggtggaaac tcatatgcaa attcaattta tgaggctttg 60  
gttccaaaag atcacccaaa acccaaacca gattcaacga tggaatatag gacaaaattt 120  
ataagagcta agtatgagac acaagatttt ttgaagccaa gtttgcgcat ttcattcaaga 180  
tcatctttta aatctaccac ttctgtgaag agtgtagata gcaatttctc tagcacttca 240  
aggaaggatg tctttgaaga tacaagagaa tttgttgag agttgaatat cacactgggc 300  
aaaggcacca acttgccgt tagagacatg ctaacaagt atccatagt tgttttaacg 360  
ctcggagggc agaaagttca atcaacggtt aaaaaaagt atctgaatcc ggtatggaat 420  
gaagtgctaa ggatatctgt tcctcgaaat tatggacc 458

<210> 40056  
<211> 458  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3075-049-Q1-K1-E4  
  
<400> 40056

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tggccaataa aggcgaggag gagaaggtgc tcaaggcggg catcatcgac atgcagttcc 120  
gaagggttaa gtgcaagtac gactccaagg tcaccttcca ccttgaaaag gggcgcgcc 180  
ccaactacct ggcactgctg gtcaagtacg tcgacggcga cggtgacatt gtggcagtgg 240  
acgtcaagga gaagggttc gacacgtacg agcctctgaa gcaactcctgg ggcgccatct 300  
ggaggaagga cagcgacaaa ccgcttaagg gacccctcac cgtccgcctc actaccgagg 360  
gaggcaccaa gttcgtctac gacgatgtca tcctcgccaa ctggaaggcc aacaccgtct 420

acaccgtcaa ataataactt tagtgctgac aatacttt

458

<210> 40057

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-E5

<400> 40057

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gggagcttta ctgcctcgag catggcattc aggctgatgg tcagatgccc ggtgacaaga 120

ccattggggg tggatgatgat gctttcaaca cttcttcag tgagactggg gctgggaagc 180

acgtccctcg tgctgttttt gttgaccttg aaccaactgt catcgatgag gtgaggactg 240

gcacctaccg ccagctcttt caccctgagc agcttatcag tggcaaggag gatgcagcca 300

acaacttcgc ccgtggtcac tacaccattg gcaaggagat tgttgacctg tgccttgatc 360

gcatcaggaa gcttgccgac aactgcactg gtc 393

<210> 40058

<211> 405

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-049-Q1-K1-E6

<400> 40058

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caaccgccgg aaccggcgcc accgcaagac ggggaaggag aggacaacta ggaggaaggg 120

accgccacca atatatatca cacacacaca cactcacaca ttctcacact caagtctgcg 180

tttgccattht ttcttttctt tttctctacg acgcttcgtht attccctcct ttcattctatc 240

tctccngaa ctcggtttgt cgtccagctg gctgtaagtg taccagatgc cttcggttacg 300

tctgatgagg ctcatgacaa tggcgatttt ggcattggagc tgtgttagcc tcgcggaata 360

actgtaactg tgtaagcaga actgctatat attggctcta acaat 405

<210> 40059

<211> 387



gtcacggtgt acatcactga catgaactac gagecctatcg ctccctacca cttcgacttg 420  
agcggcaagg 430

<210> 40062  
<211> 439  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3075-049-Q1-K1-F10  
  
<400> 40062

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gactgtagag gctgagagga tgtctgtgga ccatgttgcc catctcaaac catctgatgg 120  
tggttcagca gcaactcagt tggctgctca tcttacagga atacacagtg ccatcaagat 180  
gctcaatagc aggggtccgtg ttatccatca gtatcttggt gccatgcaaa aagggtgacat 240  
tccaatggac aattcgctgc ttaggcaagt ctcaagcctt gtaagaaggc taccggctac 300  
ggaatcacag aaattccaag atgactttnt aatggaatac aacgacactc tcctcatgac 360  
ttacctggca atgttcacta actgttcaag cacaatgaat gagttggtcg agaaaatcaa 420  
cacaagctat gagagaccg 439

<210> 40063  
<211> 376  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3075-049-Q1-K1-F11  
  
<400> 40063

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tggaatgagc tgccagtctc aacaagcact ctctatccct gggatccatc atctacatac 120  
atccatgagc ctcttactt caaggatatg acaatgactc ctctggccc gcgaccggtg 180  
aaggatgcat attgccttct gaactttggt gacagtatca caactgatca catctcgctt 240  
gccggaaaca ttcacccaga cagcgcagct gcaacatatc tgaaggagcg tgggtgttgaa 300  
aggaaggact tcaactcata tggtagccga agaggaaatg atgagatcat ggctagggga 360

acctttgcca acattc

376

<210> 40064

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-F12

<400> 40064

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cggctcacct tccaggtcag cgagggctcc aagcctggcc acttggtcct ccccccaac 120  
gttgccacca tctctgacgt ggagatcaag gagcacggtg gcgacgactt ctcctttacg 180  
ctcaaggagg gtccgactgg cacctggacg cttgacacca agaccccgct caagtacccc 240  
ctctgcatcc gcttcgctgt caagtccggt ggctaccgca tcgccgacga cgtcatcccc 300  
gccaatctca aggccggcac cacctacaag accaccctca acatctaatt agcctcttat 360  
gacacataat attttgagag agctcatctg gaccaagtgc cagcgagcta atatttaatt 420  
ttcttctttg ggtatattga ggcaccacac gagccaagaa aa 462

<210> 40065

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-F2

<400> 40065

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tgctgttttc tctgatcaga ggagagggtg ggaaatggat tgcgattatt gctgttattc 120  
tgcgctctatt ctttccacga cacttcccag attgggttaga gcttcctggg tccatcatcc 180  
tgctcacagt ggctgccccct agcctgttcg cggacagctt caggggagac ctcgttggtg 240  
tcttcatatg ccttgtgatc ggatgctacc tgctccaaga acacatcaag gcgtcagggtg 300  
gattcaggaa cgccttcagg aagggaatg gtgtgtccaa ctcccatcgc atccttctgc 360  
tcttcatcta ccctgtctgg gccggtgtgc tgcaagt 397

<210> 40066

<211> 397  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-049-Q1-K1-F3  
  
 <400> 40066  
  
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 agtgagggtc ttgattttgc tgatcgtgct gggagggcag taatagttac tggaatgccc 120  
 tttgctactc caactgatgc caagggtcgg ctcaagcgcg agtatttgga taagcagggg 180  
 acaccatcta ataaaaacac aaagatgttg acaggagaag aatgggtatgt gcaacaagca 240  
 gcacgggctg tcaatcaggc tgttggacgt gttatcagac atcgccatga ctatggagct 300  
 attatttatt gtgatgaaaa ggttgngtgg ccaaattatc aatctcagat gtcattttgg 360  
 ctccgacctc atataaagtg ctactcaaag tatggggg 397

<210> 40067  
 <211> 459  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-049-Q1-K1-E10  
  
 <400> 40067  
  
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 cgaccgccac agttcaaagg acctgcacca ccaacttcga gaagatctcc acctccactg 120  
 gtgaagcccc cgccaccacc gccacttgta agctctccac cactgccacc aatgacctcc 180  
 ccacctccac cagccgtccc atcaccacct ccacctgcac catcatcacc tccaccgtcg 240  
 gcacctgagg agttcatctt gccaccaatc atgggcgcagc agtatgcgtc gccaccgccg 300  
 cctctgttcc aaggatacta agcggtgatc acagcgcgct ctactgacga tgagagtaat 360  
 cgcgacgagg gaggccagga gaagcagtga caagtcgatc gcaccatgca atgctctagc 420  
 gacctgaatn gaatgctatc ngataagcgc atgtacgtt 459

<210> 40068  
 <211> 222  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-C6

<400> 40068

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cagataaaaa gatcatatgt ctcgttctat tctctgggat actactacta tctgttcgtc 180

gcgctgattg ctttttatac atcgatcgag gatcgactta tc 222

<210> 40069

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-C7

<400> 40069

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tccatcacga acatgatgaa cccgggtcaag attggactct tcgaccacga cacgttcacc 120

aaggacgaca gcatgggcaa cgccgagttc tgcatacctca acttcgtgga gatcgcggaag 180

caggacctga gcgacgtccc cgacggcacg gtgataaaga cgatccgccc ggagaagggc 240

agctgcctcg ccaccgagag ccacatcacg tggaaggacg gcaaggcttc ccaggacatg 300

gtgctcaage tcagggacac cgagaccgga ga 332

<210> 40070

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-C8

<400> 40070

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accggggcaa ggacatgctg atcaaggacg tgaccgtgac ggcgcccggg gacagaccca 120

acacggatgg ctttacttgt gcgactcatt cgggatcacg atcaccaaca ccgtcattgg 180

aagcggcgac gaatgcatct tcatcgcccc cgggacctac aaggtgaaca 230



<210> 40071  
 <211> 363  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-D1

<400> 40071

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 ctgcacggct ccaattcagt tcatcaccat acacgcatgc atcgtggcgc acgccactca 180  
 cgagcgcggc gcccatgcgc ccacaactta ttacgactcg tcaccaacca accaaaccaa 240  
 gccaccacgc aggtccagtc caggcgtgtg tgctgtgtc tcctctaccg gccgcgggcc 300  
 acatcacgcc gccgaggcgc ccttggcgtc gccgctgcag tagtcgcgaa cggcctcgag 360  
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<210> 40072  
 <211> 98  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-D10

<400> 40072

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<210> 40073  
 <211> 360  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-D11

<400> 40073

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 tgtcttttac acacatcggg tgtagtatat tatgccactt aacataaaaa caatgtggcc 120  
 aatggatgta acagctccaa actgacttgc ctctctttc aaacgactat catggctatg 180





ag

422

<210> 40078  
<211> 399  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3075-049-Q1-K1-D5  
  
<400> 40078

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gagcatcctc gacatcctgt gtggccagga ggatttcccg ctggatctac gcatgaggat 120  
cgcgatcaag accgcggaag cgttgcagta cctgcattcg tcggaaactg gcgtcaccgg 180  
acacggcagc gtctcggcgt ccaccatact cctcgacaac aacctcgtac cgaagctcac 240  
cgagttctcg aggtcatgta cgctgttcaa gaagagcgag actacttctg ttgttggtgc 300  
tggagtgatg atcactggca gccttctaga gaaagctctg aacgacgacc cgtcccgcta 360  
cggctcggtg ttgatgaacc tggagagcga cgtgtacag 399

<210> 40079  
<211> 369  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3075-049-Q1-K1-D6  
  
<400> 40079

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gtggtggctg attagggtag gaagggatgt ctgaaagtga cgagcacggc tcgctcctag 120  
acaagatcaa cgagaagatc cacgagtaca agcactcatc gtcgtcttcc tcgtcagact 180  
cagatgatga caagaagtcc aaaaagtcta agaagaagaa gaagctcttt gggaggaaac 240  
atccattgca tcacgttctt ggaggaggca aagccgccga tcttgtgctg tggaggaaca 300  
aacaggcatt cgggagcatc ttggcagggg tgactgtgat ctggctgctg tttgagggca 360  
tcggtacc 369

<210> 40080  
<211> 411

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-049-Q1-K1-D7  
  
 <400> 40080  
  
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 cggctcgtcg ggtaccggtc gcccgaggtc ctcgagacca ggaaaccgac gcagaaatct 120  
 gacgtctaca gcttcggcgt cctcctcctc gaaatgctca caggtaaagc ccctctcagg 180  
 tcccccgggc gcgacgactc catcgagcac ctcccagagt gggtagagtc cgtgggtccg 240  
 gaggagtgga cgtctgaggt cttcgacgtc gacctgctga ggcacccgaa cctcgaagac 300  
 gagatgggtc agatgctcca cgtcgcgatg gcatgctgcg cggtcgtccc cgacgagcgg 360  
 cctttgatgg aggaggtgt cggcaggatc gaggagatcc ggagcttcta c 411

<210> 40081  
 <211> 443  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-049-Q1-K1-D8  
  
 <400> 40081  
  
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 ggctgggtcc caatgcgcga tattcaattt ggattgattg gaaactcaag ctagtgaggg 120  
 atccttatca ggtattacaa agggctcttg gcaggcagag tgtagcttt gcaatttcca 180  
 ggcattacag acgcttcgat gttttcgagg aagctgactc cgacaaggca ttgggaactg 240  
 tgagaacacc tttcgtaagg gacgtagacg cgacaggtgg tttcatttca tagatcagac 300  
 ggaagcagag acaaggcgt taaagctgcg ccagggtccg gggctggcag ttgaagcata 360  
 gctaggaaac agctttccct ctcttaattc gttgtgttcg tggtagacata atctgtgtgc 420  
 ggaccgaatt tagaataaag tac 443

<210> 40082  
 <211> 453  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-049-Q1-K1-D9

<400> 40082

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tgtaaagctg agtgatgctt cgaagaagct tgggaagaag tttgcaactg gagcttctgt 120

tgtcaagggc ccgaccgaga aggaacagat tgacgtgcaa ggggacatat catatgatat 180

tgtggagttc attacagata catggcctga tgtacctgag tcggccattt tcttcattga 240

agatggaagg aaggttcctg ccgcttgatg ccactatgag gcgcaggacc aatggattta 300

caattataac acagagataa agcaaaggcg tggctgtcaa ggcattgtagc ggcccatacc 360

agtcgtctct ttgtccgaag tcatggactg gtcttccaag ttttatcagg agtggcgttt 420

tgttaccacc gtcacctgct tcatgtatga gat 453

<210> 40083

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-E1

<400> 40083

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atagccctc catcgactga cccatctctc tagttataat ttttctctcg tccttgcat 120

gcccattaga tgctatccat tggtaacgca caacagtaaa acgacagaca tccgacagct 180

atattatggt cgacggtgta acaccctgaa tttgagggtg taaaatttct tctccaaata 240

ccaaccaaat ttaggggttt aaaaaaata aaaaaaatat ataaaaaaaa tatttttttt 300

tatttaatat aaaattaaat ttaatatatt taatttttaa tttataataa tattttataa 360

aaaaaattat 370

<210> 40084

<211> 397

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-049-Q1-K1-C4

<400> 40084

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catgtcggcc gaggtcggac tgccgcccgc ggacgcgccg gcgccgttcg gagggtagcg 120  
ctcgtcggct ggccccccg cctacggcgc tccgtctcct gatgccccag cttatggcgc 180  
cagcgtacca gcaccgacct cggagcagag tactgcttcg actgcatgag tgatatcgtg 240  
gcggcacaca cgcattcttg tcaactcctat ccatgggttcg aattaccgac cgaaaagtct 300  
ggttcctcgg ccaatttctc gttcccggtc agctagggga agcatttctc ggcccgggtat 360  
cacattntaa aaatatgaaa gtcaattttt tttgttc 397

<210> 40085

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-A9

<400> 40085

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gagggaaagg cttgctcgcc gcgaagacta cggcggccaa gtccgccgag aaggacaagg 120  
ggaagaaggc cccaatctca cgctcctccc gcgccggcct acagttccct gttgggcgta 180  
tccaccgtca gctgaagcaa aggactcagg caaatggctg cgttgggtgcc accgcagccc 240  
gctactccgc tgccatcctg gagtacttga ctgccgaggt tctggagctg gctgggaatg 300  
ctagcaagga tctgaagggt aagcgcata cccctc 336

<210> 40086

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-B11

<400> 40086

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ggcaatggca agacagacag cacgaaggct gtgcaggagg catgggcata ggcgtgcggc 180  
ggcactggga agcagacaat cctcataccc aagggcgact ttcttgctcg acaactcaac 240

ttcacaggcc cttgcaaggg cgacgtgacc atccaggtgg atggcaatct gctggcgacc 300  
 acggaccta gccagtacaa ggaccatggg aattggatcg agattctacg cgtggataac 360  
 ctggtcatca ccggcaaggg aaaccttgac gggcagggcc cagccgtgtg gagcaagaac 420  
 tcctgcacca agaagtacga ct 442

<210> 40087  
 <211> 239  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-049-Q1-K1-B12  
 <400> 40087

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 gggcgcttaa catcgagtgt gggtagcatg tccagagggg cttccatgca catcgtggac 120  
 aaagggctcaa gggctggttc gacttcaagg gcatctatga ccttgaaaag gggagcgcgc 180  
 ccaactagct gatactgctg gtccagtcta tctaccgaca ccgagcacct attatgggg 239

<210> 40088  
 <211> 438  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-049-Q1-K1-B2  
 <400> 40088

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 gatggacttg ttgtttgcac agacagtgcg gtttacgctg aagggtccggc tcgccctact 120  
 ggtggtgcgg ctgctattgc aatgctgatt ggaccaaattg ctcctatttg ttttgaaagt 180  
 aaatatagag gatctcatat ggcccatgta tacgactttt acaagcccga tcttgcgagt 240  
 gaatatccgg tggttgatgg gaagctatca caaacatgct acctcatggc attggactcc 300  
 tgctacaatg tattttgcaa aaagtatgaa aaacatgagg ggaagcagtt ttcaatttct 360  
 gatgcagatt atgttgtgtt ccattctnca tacaacaagc ttgtacaaga aagcttcggg 420  
 cgtttgtact acaatgat 438





<400> 40091

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gccaaccgta gcaagaacat caccaccgcc caacggcaag aaagaccccg cctgcaccaa 120

gatgtgcaac caggcgtgcg gctccacgga tcagggcgcc ggtgccgcgc gcgcgcgcgc 180

ggcttgatcg ccagcgcgat tcatcgcttc agctcgatat aatcgctgct ccgtcagcaa 240

cccacatatg attcgatcaa ttttcctgct ctaatttctc gaccccgctc aatttttttc 300

ctttctattc ttctactata ctactactat ctgcttgctc cgttgatttc ttctcataca 360

tcgatcgagg atcgactcat cgttttgtaa ttcctgcaat ttgtaagtgt aatgacctat 420

atgacttagt cttcctttt 439

<210> 40092

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-B7

<400> 40092

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tcggccacca atccactagc agcttcatgt ttgaggctca ctttgggctg ctcatcttcc 120

tgggctacat ggtgtacgac acgcaggagg tcatttagag ggcgaccac ggcgacatgg 180

actacatcaa gcacgcctc accctcttca ccgacttact ggctgtactt gtccgcattc 240

ttgtcatcat gctcaagaac gcggctgaca agtccgagga caagatgacg aataggatga 300

ggttggtgaaa atctgtgttc gaacacagca cttcaaggaa aggaaggaaa gcact 355

<210> 40093

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-B8

<400> 40093

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cctcaccaaaa cttgtcgact tgtgagtctc ttccgcgcgc gtcgacgaga gctgcgctag 120

gtgatctcgg ctgttctctc gtcccccatg gcgacggcgc tcaaactcgtt cctgaacagc 180  
 cccgtcggcc ccaagaccac ccacttctgg ggccctgtcg ccaactgggg ctctgtcatc 240  
 gcggggttgg ttgacatgaa caagcctcct gaaatgatat ctggcaatat gacagcagcc 300  
 atgtgtgtgt attctggact ctttatgag 329

<210> 40094

<211> 368

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-049-Q1-K1-B9

<400> 40094

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 gtgccggcgc tgttctgaa cccggcgtag caggacgagc tcgacgggat gttccctcgg 120  
 aaggactcgg tgttctacct cctggcgcac tacctgttcc acccgacgaa cgaggtttgg 180  
 gggctggtga cgaggttcca caggtcgtac ctgaggggct cggacgaaag gctgggcatc 240  
 caggtgaggg tgttcgacgg agacgccccg ttccagcaca tcctggacca gatcctcgcc 300  
 tgcacttcgc aggaacacct gctccccgac gtggcggtga cgcaagagcc gtcngcgggc 360  
 cgcggcgc 368

<210> 40095

<211> 350

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-049-Q1-K1-C10

<400> 40095

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 cgtcttctctc gtcgtgctcc tcctagccgc cgtcgccatg gcgcggttcg cgggcgcggc 120  
 gcgcacgcac gtcgtcgagg gcaggcccat ggcgtccgag gacgcaccgg aggccgccgn 180  
 cgacgtctcc gtcctgctc ctggccccga ctctttctcg acccgctgc cggcaccctt 240  
 cagcagcagc tctttcgact agccgccccg cagagatatc tacggcgctc gatcagtctt 300

tggcgccacc tataacctat cggatcctgc aaagctatat atgattctat

350

<210> 40096

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-049-Q1-K1-C11

<400> 40096

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tgggccgccc tcgggggggg gccgtttgcg ggggctgcgc gtgtggatgt cgtggagggc 120

aggtacatgg cgtncgccga cgcgcctgag gcggcggctg acgcgcccgc tcccgggtccc 180

gacttcgcct catacccga ctcgtcgtcg gaggcgccct ccagcagcag ctcatcgcac 240

tagccgcgca caacgcagtt cttgtcatga tctatctagc aaataaaaag atcatatgtc 300

tcgtttgatt ctctggaata actaatagta tatatgctgc gcccgatga tatataaata 360

tgtgcatcaa atgcgtgcgg caaacgcatg gaatgtgctt gcctagctag ctaattggtg 420

gttttttttt ctttac 436

<210> 40097

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-C12

<400> 40097

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cggcaaccgt agcaagaaca tgagcaccgc ccaacggctg gaaagacccc gcctgcacca 120

agatgtgcaa ccaggcgtgc ggctccacgg atcatggcgc cggtgccgcc ggcgccgcgc 180

cggcttgatc gccagagca ttcatcgctt cagctcgata taatcgctgc tccgtcagca 240

accacatat gattcgatca attttctcc tgtaatttct cgaccccgtc gaatatttgt 300

gctttctatt cttgtactat actactacta tctgtctgtc gcgatgattt cttgtgatac 360

atcgatcgag gatcgactta 380

<210> 40098  
 <211> 328  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-049-Q1-K1-C2  
  
 <400> 40098  
  
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<210> 40099  
 <211> 310  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-049-Q1-K1-C3  
  
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 accgtacgta taatttggtt ggagtccatt attctacgct atttgggtat tattattgtt 240  
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<210> 40100  
 <211> 419  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-048-Q1-K1-G11  
  
 <400> 40100

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 aggtcacggg ccactccac atgagcatgg aggactgcat gaagaggtgc aaggagatcg 180  
 ctgctaagca ggggcctagg gacccttaca aggataacaa acttgacatc ccatgaacta 240  
 attaatgctc ctatatcatc tgcctatcca tgcattgcatt gcattgcgta tgcacactgt 300  
 gcgtgcctgc ccacaaagt tgcacaacaca ccgatctcga cggatttgta atcgtgtcca 360  
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<210> 40101  
 <211> 311  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-048-Q1-K1-G12  
 <400> 40101

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 acctggtgct gtacggcagg atccagtgca agggcaagtg caccgagcag aagggcacatca 180  
 cggcgcgggc catgaaggtc tgccaggagg agtgcgacaa ggcgtacgtg gtgaaggcgg 240  
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 agaactgcaa g 311

<210> 40102  
 <211> 520  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-048-Q1-K1-H10  
 <400> 40102

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 atcaggcacg gcgttcgtcg cgatggccgg gaatggcgag gaggagaagc tgcgcaaggc 120  
 gggcatcatc gacatgcagt tccgaagggt taagtgcagg tacgactcca aggtcacctt 180  
 ccaccttgaa aaggggtgcg gccccaacta cctggcactg ctgggtcaagt acgtcgacgg 240

cgacggtgac attgtggcag tggacgtcaa ggagaagggc tccgacacgt acgagcctct 300  
gaagcactcc tggggcgcca tctggaggaa ggacagcgac aaaccgctta agggacccct 360  
caccgtccgc ctactaccg agggaggcac caagtccgtc tacgacgatg tcatccctgc 420  
caactggaag gccaacaccg tctacaccgt caaataatta acttttagtgc tgacaatact 480  
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<210> 40103

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-048-Q1-K1-H11

<400> 40103

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ggcggaggcc cgggtgccgc tcgcctaccg cgaccagtgc gcgcacctcc tcatcccgtc 180  
caacaagtgc cgcgtcgccg agttctacct cccctggaag tgcgagcccg agcggcacgc 240  
ctacgagaag tgccagtacg agctcgatcat ggagcggatg ctccagatgc agaagatccg 300  
cgaggcgcan gagaccaagg tcaagggcgg cgctncatt ggcctcatcc cggccaccgn 360  
caagctcgcc tgatacgggt cccagcccga tccgcttgat ttaggtctgt ttgttggtta 420  
tagcagcgt 429

<210> 40104

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-A1

<400> 40104

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attctgcttt agtgcaatgt gcaaggcaaa ttgttttata gaaggaaaaa gctccgatgg 180  
ttcctatgca aagggatata gatgtgattc acatggattt cattctatgt gtatttgcct 240

tttgtgaaaa gttagttatc ttaagacaag cggggatata ttctatgttc ata 293

<210> 40105

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-A10

<400> 40105

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cgactccgag atcaagtacg ccgaggactg cgatgaccac gacagggttg aggagattcc 180  
agaaaatttc cttttcaaaa tcagcgacga gaaggggacg aatgcagtta cccttaaaag 240  
aacatatcag ggtgagcaga ttgaggttgt ggttcacatg cccagccttg tcaactggaga 300  
tgagcctgat catgaccgtg atggtgagga tgaggacacg gcgggagatg acaatgacga 360  
agatg 365

<210> 40106

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-A11

<400> 40106

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ttcttgagat atatgcacca tgggtgggtc attgtcaatc gctggaacct acttacaaca 120  
atctagccaa gcatctacgt agtgttgact cccttggtgt agccaaaatg gatggtacta 180  
ccaatgagca tccacgtgca aagtctgacg gatacccgac gattctcttc tatccagctg 240  
ggaagaaaag ctttgagcca atcacttttg agggggagcg gacagtggta gatctgtaca 300  
agttcatcaa gaaacatgct agcatccctt tcaagttgaa gcgccaggag tcgagaaccg 360  
agagcactcg ggcggagggt gtgaagagc 389

<210> 40107

<211> 457



<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-049-Q1-K1-A12  
  
 <400> 40107  
  
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 gagggtcagc gtgctcaatg atgctctcaa gtccatgtac aatgctgaaa agatagggaa 120  
 acgtcaggtc atgatcaggc cgtcatccaa ggtgatcatc aagttcctga cggtcatgca 180  
 gcgccatggc tacattgggtg agttcgagta cgtggatgac cacagagctg ggaagatcgt 240  
 ggtggagctg aatggaagac tgaataaatg tgggtgttatt agcccacgtt ttgatgtagg 300  
 tgttaaggag atcgagggat ggacggcgag gcttcttcca tctcgccagt ttggctacat 360  
 cgtcctaaca acttctgctg gaattatgga ccatgaggag gcccgccgta agaatgttgg 420  
 tggcaagggtt ctaggtttct tttattgaaa atgtgtt 457

<210> 40108  
 <211> 443  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-049-Q1-K1-A4  
  
 <400> 40108  
  
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 cgctgtcgt cctcctcct cggcgtggcc gccctctcgg cgcgcgccgc ggcgagcag 120  
 gtgccgccgg tggggcggcag cgctctgaag ccggactact acagccagtc gtgcccgcg 180  
 gcggagcggg tcatcgcgga ggtgatgcag acgaagcaga tggcgaacct gacgacggcc 240  
 gcgggcatgc tgcgctctt cttccacgac tgcttcgtca ccgggtgcga cgcgtcgggtg 300  
 ctgatcgctg ccaccagtt ccagaagtcg gagcacgacg cggagatcaa cactcgctc 360  
 cccggggacg ccttcgacgc cgtgggtgcg gccaaagctgg ccctggagct ggagtgcccc 420  
 cggggtggtg tncctgcgccg aca 443

<210> 40109  
 <211> 445  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-A5

<400> 40109

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accaaggaac ttggcactgt gatgcgctca ttggggcaga accctactga ggctgagctt 120  
caggacatga tcaatgaggt tgatgctgat ggcaatggaa ccatcgactt tcctgagttt 180  
ctcaacctga tggcacgcaa gatgaaggac accgactctg aggaggagct caaggaggcc 240  
ttccgtgtgt tcgacaagga ccagaatggc ttcattctccg ctgctgagct tcgccatgtc 300  
atgaccaacc taggcgagaa gctgacggac gaggaggtgg acgagatgat ccgtgaagcc 360  
gacgtggacg gcgatggcca gatcaactac gatgagttcg tgaaggtgat gatggccaag 420  
tgagatatgc tcgctatttt taagc 445

<210> 40110

<211> 454

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-049-Q1-K1-A6

<400> 40110

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agcaagggcg cccccgagca gatcatcgag ctgtgccgga tgagcaagga tgccgagaag 180  
aagatccacg ccctcatcga cggctacgcc gaccgcggcc tccgctccct gggcgtgtcg 240  
taccagctgg tccccgagaa gagcaaggag agcgcggcg agccgtggca gttcatcggt 300  
ctctccccgc tgttcgaccc gccgcggcac gacagcgcg agaccatccg ncgcgcgctc 360  
cacctgggcg tgaacgtgaa gatgatcacc ggcgaccagc tggccatcgg caaggagacg 420  
gcgcggcgcc tgggcatggg cagcaacatg tacc 454

<210> 40111

<211> 237

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-A7

<400> 40111

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gatcaactgc actgggccag gcgctgacgt gacaaaccgc gtgccatggt cgtggagggt 120  
ctctcccgac gacgcggcca agtacctcac catcgacttc atcaacggca aagactggct 180  
gccggcgtag tactactgat ccgaccaacg actgctggat ccatcaaaca tgcacgc 237

<210> 40112

<211> 124

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-H8

<400> 40112

atttgaaaca gttcagaatt catctataag attgcctaca tatatatatg attctggcaa 60  
ggcaaactgt atgcagtctt gacgcatggt ccattcggac atcatcatgc ttgtcctgct 120  
gatt 124

<210> 40113

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-H9

<400> 40113

aaaaccatag tatcaatcat gattggccgt tttttgtcaa taatggccac tatgctgacg 60  
aggaggctgg tcgacttgct cggccgggcc tccgatgtcg aggacgacct ccggggcaaa 120  
aagaagccca acatacacca cctcaagggtt aaggcgtgtc catggacgga cggtcacgcg 180  
actatctaaa agcggacgcg acgcgttaac tgacacca 218

<210> 40114

<211> 472

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-A10

<400> 40114

atctcatgag aggaacaat atgtctatct cacatagaca caaatacaag ataaggaaag 60

agagttgaaa agggactata ggttgctaaa ggatgcaaag aatcaaagtg gagcgcatct 120

tgatgagaag acagtgagga ttacggctga cccagcttta tggaaaaata tactgacttc 180

tcatgctaag gctaaaaagt tctgcaacaa gtcttttcct ctatatgagg ccttggggga 240

gctttatgat gggcaaacag ctgaaggagc ctactactac accttcaccc aactttttaga 300

tcttactcaa gtaggaaata gagatgagtt tctcatcata gaacatgaac aagatgaagt 360

ggaagaaacc ttgccggcac atgaagaaga tgatgtccat gttgttgagg caggagatgc 420

aacaggttta aggcattgat cattgccgca gagaacgact actgctacaa ga 472

<210> 40115

<211> 167

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-A9

<400> 40115

actttatacc ctattccttc tacacttcca acttccaatt ctactatact ttcaattacc 60

ttcaatacat cactctcttt actctatata cctacatcaa caatctaatt aactttatta 120

tattcatata tacattcacc ctaccattat actactaact ttaatct 167

<210> 40116

<211> 390

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-048-Q1-K1-B11

<400> 40116

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tcattttcag aaggaanagt caaatgtcat cgatgctaaa gcgtccgttc ctggtacctc 120

cttctacatc accaagttgg tcgcctccgg caatgtcaag acatacagca cgaatgctgt 180

gcatgaggca tgtgcatctg cttgccgctg ctctgggaag catacaatcc tcatacccaa 240

gggcgacttc cttgtcggac aactcaactt cacaggccct tgcaaggtct acgtgaccat 300  
ccaagtggat ggcaatctgc tggcgaccac tgacctaatac cattacaatg accatggtaa 360  
ttggatctag attctactcg tggataacct 390

<210> 40117  
<211> 305  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-048-Q1-K1-B12  
<400> 40117

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attctgtttc ttgtgcgaag tacaagatcc ttaacaagga accggctagt agatccatct 120  
ctcccaatga tgtttttgag ttcaattcaa agtttactga cagaatgaga agaatcaagg 180  
ttccactccc tcctgttgat gagaagaaaa aggttggtga agatgttgac aaagacagga 240  
gggatgcaat tgatgcatca attgtgcgca ttatgaagag ccgcaaagtt atgggtcatc 300  
aacag 305

<210> 40118  
<211> 283  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3075-048-Q1-K1-C9  
<400> 40118

caagatgtca tgcacaaaca ttctgatgtt agccttgntc ctctgggtcc taggcttcat 60  
gtttcatgtt gagaaggaan aggcaaattg catcgatgct aaatcttcct gtctgttgg 120  
ttcctttctac atcaccaagt tgttcgccct cggcaatgtc aagacatata actctaatac 180  
tgttcatgaa gcatgggtcat ctctgttctg cttcactgtg aatcatacaa tcctcataacc 240  
caatggcgac ttcttgtcg gacaactcaa cttcacaagc cct 283

<210> 40119  
<211> 363  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-D10

<400> 40119

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cttggtgact tcctccgctc cgctcccctc cgctcccgaa cggtcgatct ttgcatggca 120  
gcagcagctg gctccaaggg gcggggcgatc gctggaagct tcgtcagccg cgtcctcgcc 180  
ggcaaggccg cctcgccgag gagggccgtg cacgcctcgg cgtacgacaa gaacctggag 240  
gaacaggtgc gcccggcggtt cgtgccggac gatgtgatcg gcagcgccgg gagccccgac 300  
aagtactgga gccccaccc caagaccggc gtgttcggcc ccggcggcgg tggaccccaa 360  
gct 363

<210> 40120

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-D11

<400> 40120

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tttcgctccc ttttgctcat cgctagtgcc ttgcgggtctt ttacctctg ctctagcatc 120  
tgctatccat acttacagtc ttcgtttgat gctggaatcc tgattggcag gttcaatcac 180  
atagctcgat cgccatgtct ttcactgtct ctcatgacaa gtgctaagcc tgcgactaga 240  
ctgtccacat catcgacctg ctctccgcct actgcttctc gtaccacatg acattcttca 300  
agtgcacca ctgcaatgac gtcctctcaa tcagcagata ctctctcatg gacggagtcc 360  
ttttctttat gactcactct gtacagcttt tcaactatac aggtaccctc tcataaaact 420  
tttaacgttg agcatattca aa 442

<210> 40121

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-D12

<400> 40121

ccgcacctgg acctattgag cagcgttgga ctgtccgcag caagagcccg atgagcccg 60  
catcaagctc tgaagaagat gatgtat ttt catgggttg tattataatg tatctgcca 120  
catctgatgc tcgccaagg aaggaaatca cagaggagt cttcagttac aggagcctgg 180  
cgcgaagtct ctgggatgat tattccgctt atgaacactg ggccaagatc gaggttccaa 240  
aagacaagga cgaacttgcc gaactccagg cccggctgag gaagcgtttc cctgtcgatg 300  
catataacat ggcacgtatg gagctggacc ccaacaaggt gctctcaaac gccaaagtgg 360  
agaagatgtt ccagtgttg ag 382

<210> 40122

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-D9

<400> 40122

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ccgggtgcac gagcatcggc tagccatact tactgccttc gtttgaggct ggagtcctga 120  
ttggcagggtg caagcacaga gtcgatcgc catgtctttc accggcactc atgacaagtg 180  
caaagcctgc tacaagactg tccacatcat ctacctctc accgtctact gcgtctcgta 240  
ccacaagaca tgcttcaagt tcatccactg caaggctggt ctctcgatta gcagctactc 300  
ttccatggac tgcgtcctgt actgcaagac tcactttgaa cagctcttca aggagacagg 360  
gaccttctca aagaactttc aagggtggagc atcttcaaac aagaacgacc tctcaaaggc 420  
tccaagcaag ctatcatctg cattctctgg aactc 455

<210> 40123

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-E10

<400> 40123

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ttgcaagcct gccggtgacg agtcaacgtc gtggaagcgc ctcggtggac gtatgcgccc 120

gctccgcctt cgcgggcagc tggagtacta cccgtcgtca ccgccgtcac cgccgctggg 180  
ccacgccgat gtgtaccatg acgtgatcct cccgccgtcg tcgcaggcac gggtcgggctt 240  
cgagatcaag gaggtgggca tgaccagccg ctacgcgtcc gctgaggatc tgcaccagat 300  
ggacagcgac caggaagagg gtgctgaggg tggcgatgac ggtgacagca gttgcccaca 360  
cgccatcgac atgcatgcgg aggagtcac accaagtcta tgagcag 407

<210> 40124

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-E12

<400> 40124

ggcagggcat atttctcagc aacctcagca cacacttgta ctggagatgg caatgctatg 60  
gtcgcgacgt gctgggttac ctcttcagga tcttgagttt gtacaattcc atcctacagg 120  
catttatggg gctggatgcc tgattactga aggttctcgt ggtgaagggtg gtatccttag 180  
aaatagtga ggtgaacggt tcatggaacg atatgctcct actgcaaaag atcttgcttc 240  
tcgtgatgtt gtttcaagat caatgacaat ggaaattaga gaacgacgtg gtgtagggcc 300  
attgaaggat cacatttatt tgcactctgaa ccatctgcct gctgacgttc tcaaagaaaa 360  
gctccctgga atttctgaaa ctgctgtaat tttggctagt gttgacgtca ccaaggagcc 420  
cattccagtt ttgcctactg tgcactacaa tat 453

<210> 40125

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-F10

<400> 40125

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gcgcgggggtg cggctctccc aaagtccgcc caggcaagaa catcacggcc acctatggca 120  
aggactggct ggacgctaaa gcgacatggg atggcaagcc gacagggtgcc ggtcccgcag 180  
ataacggtgg cggctgcggg tacaaggacg tgaacaagcc ccccttcaat agcatgggcg 240



catgcggcaa catccccatc ttcaaggatg gtctgggttg ggggtcctgc ttcgagatca 300  
 agtgcgataa gcctgtggag tgctccggca agcccgtggt ggtgcacatc acggacatga 360  
 actatgagcc tatcgcggcg taccacttcg atttagcatg cacggcggtc g 411

<210> 40126

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-G10

<400> 40126

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 ctggcgacaga tgtggcagca cgcggtcttg gcatgatgat tcatttgaat attacgatta 120  
 ggtagccgtt ccaagtgtc aaggggtgata agtcgcatgc tcgctgtgct gcgactggtc 180  
 gagtgaactg aacttgtgga tcggtggtgt ataccaaggt gccatcatgt ctaaggtaga 240  
 taatttccgc ccgtggttta cctcatttga gcgcgagcat tgaccacgtt acacaggcag 300  
 tctaactttg agctatcatg gtaat 325

<210> 40127

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-G11

<400> 40127

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 aattgctctt agtgatggag gaattatcca aaccttcagg caccccaagg ttgtgtttac 120  
 cgtgttgac atttccttga ccgggaacgt ggttgcaact ggtagttatg acacaactgt 180  
 tatgatctgg catgcatttc gtggaagacc aattgataag aaaatcagggt gtgccaattt 240  
 tgaactttc 249

<210> 40128

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-G12

<400> 40128

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gaggccccgac ccctgatacc acgctgaggg cggtggtatt aggagattag cgatggcgag 120  
gtggcgggccg gcggcgctgc tggtagtggc tctggcggcg gttctatcgg cggcgtggcg 180  
ggcggatgcg ctatccgtta ccgtgaccga caccgagtgc attcacgagt tcgtgcccta 240  
tgagggcgac accgtgttcg ggaacttcgt cgtcg 275

<210> 40129

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-G3

<400> 40129

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aaactcgtcg tggctgccca gcagcgcgcg ctgcgccttc ttgagcgagg ggtcgtagta 120  
ggagttgaag ctgtcgatgc cgacgacgcc gtgcgcgcgt ttgcggagcg ccagcgagca 180  
gtgcgcgccc acgaagcccc cggtgcccgt gacgagcacg gacagccccg cgggcgcccc 240  
aggcgcgcgac cgccgcgcg gcgacgccga cgcccgatc tggcgcttcc agtgcaaccc 300  
gtcccaggac gcccggatct gtcgcgcccc gtgctgggtca tgttccactt c 351

<210> 40130

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-G4

<400> 40130

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gatcgagggg gaccgtgatc gggtaaagt tgcgcgcaat accttgggga cttgctcctg 120  
ggggtaatca tgagcgtgga gccggggatc ccacacaatt tgtcgccgga gttggagcaa 180  
actcgcgaca ccggggaaca ccgtgggcag catcgatttt tccacagccg tagacgagca 240

agcaaccgat gaccccgata ctgagcaggt ggataatact gagcaggagc tcgttgaatg 300  
agaagaacag gtgattcagg aggaaccaca tggcgaggag tttgatctga tctagggtggc 360  
gtgtccccag ttgacttttg cgccaaggac gatccttagt tcgttttata tttatcttta 420  
attttggaat aa 432

<210> 40131  
<211> 438  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-047-Q1-K1-G5  
<400> 40131

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gggaacaacg atgagatagg aaagaatgcc attttgaaac taatggatgc agttgatgag 180  
tacattcctg atcctgtaag gcagcttgat aaggctttct tgatgccgat agaagatgtg 240  
ttttctatcc agggctcgtg aactgttggt actgggcgtg ttgagcaggg aacaattaaa 300  
actggcgaag atgttgagat cttgggtttg acacagagtg gtcccttgaa gactacagtt 360  
actgggtgtg agatgttcaa aaagatactg gaccatggag aggctgggtga caacgttgg 420  
cttcttcttc gtgggtcta 438

<210> 40132  
<211> 235  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-047-Q1-K1-G9  
<400> 40132

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caggatgtcg tggcagacat acgtcgatga gcacctgatg tgcgagatcg agggccacca 120  
cctgacctcc gctgccatag tgggccacga cggcgccgtt tgggccacga gcaccgcatt 180  
cccacagttc aagacagagg agatgaccaa catcatgaag gacttcgacg agccc 235

<210> 40133  
<211> 444  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-047-Q1-K1-H1

<400> 40133

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gtc gatggcg tcgttctcgg aggtccccc cgggaacccg aaagccggcg agaagatctt 120  
taagaccaag tgcgcgcagt gccacacggt cgacaagggc gccggccaca agcaagggtcc 180  
aaacttgaac ggtctttttg ggagacagtc ggggtaccact gcaggctact cctactctgc 240  
gggaaacaaa aacaaggctg tagtctggga agaagacact ttgtatgagt acctgcttaa 300  
cccctaaaag tacattcctg ggaccaagat ggtcttcctt gggctgaaga agccgcanga 360  
gcgtgctgat ctcatcgcgt acctgaaagg agcaactgca tagttcattg acatgccttt 420  
tgccatgaag agaaaaattg ttgt 444

<210> 40134  
<211> 283  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-H11

<400> 40134

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ccccgcggc acaggagacg gccgtgcaca tcgtgtacgt tgaccgcccc gaggacgccg 120  
accctgagga gttccacatc cgcaccctca ccccgctcct cggcagcgaa cagaaggcca 180  
gggacgcagt gctctaccac tacaagaacg ccgccagcgg cttctccgcy aagctcacc 240  
cccagcaggt caaggatctc aaggagcaac caggtgtttc tca 283

<210> 40135  
<211> 367  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-H12

<400> 40135

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tgcagggatg ccatcatagt cgggtcccca tccgtttcct agtcctccgc gtgcacccaa 120

accctcagta gttccacatg cgcacctca cccacgtgct cggtagcgaa cagaatgcc 180

aggacgcatt gctctaccac tacaagaacg cgcgcagcgg cttcttcgtg aatctcacc 240

tccagcatgt caaggatctc aaggagcaac cacgtgttct ccatgttggtg ccgagccaga 300

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<210> 40136

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<212> DNA

<213> Zea mays

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<400> 40136

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gggccaccag gatatacgcc tggagaacac cagggaatg gggctccatg gaatacaagc 180

tatgagcgaa gaccgtttac gagtctgcg actagctcaa gagaagtcgg acctccagga 240

tatgggcctg aagaaaacca aggcagtggc atttcttgta atacaagcag agagcaaata 300

ttgtttatga gccctacaac catctcgaga gaactttgtt caccaggata tttgcccaga 360

gaaaaccagc gcagtgcac ttcattggaat acaagctgcg aatccggact atttatg 417

<210> 40137

<211> 101

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-H3

<400> 40137

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tgtagtggtg gagtaaataa tccctgctgt tcggtgttct t 101

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 <211> 299  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-047-Q1-K1-H4  
  
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 atgccgagta cgactacctt ttcaaacttt tgctcattgg tgactctggg gttgggaaat 180  
 catgcttgct tctcagattc gcagacgatt gttatttgga cagctatatc agcacaattg 240  
 gggttgatct cgaaattcgc acagggtggg cctgattcgt agaccatagc acgtccaat 299

<210> 40139  
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 <212> DNA  
 <213> Zea mays  
  
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 agatccagga caaggagggc atcccaccgg accagcagcg tttgatcttc gctggcaagc 180  
 agctggagga tggccgcacc cttgcggatt acaacatcca gaaggagagc accctacacc 240  
 tggtgctccg tctcaggggt ggcatgcaca tctttgtgaa gacactcact ggcaagacaa 300  
 tcacccttga ggtggagtct tcggatacca ttgacaatgt caaggccaag atccaggaca 360  
 aggagggcat tccaccggac cagcagcgcc ttatcttcgc cggcaagcag ctggaagatg 420  
 gcc 423

<210> 40140  
 <211> 436  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-047-Q1-K1-H6

<400> 40140

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gatgcaggga cattatgtgc ttggccacaa tttcggggcca ggtagctcac ataaccttca 180

cgacaatctg aaccagttcg atcaggcttc ctcggtcctt accttgcaac aacagccgtt 240

taccgggaat ggtcaactga cccagggata tcctgggtgat atgcatgcgt tgcagtttgt 300

ggagccaacc ccccagattg accatcagaa tggcgatgag ggtcagtcgt caataccagt 360

gtgggatttt ctttgagctg cctgcctctg gcactttgcc atccttcctt tcacgcgaga 420

ggccgcgttt caccct 436

<210> 40141

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-F9

<400> 40141

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catcgcggaac aacttcacgc agccgcagcc gagctactcg gccttcaggg aggccagctt 120

cggccacgcc accttgagga tcaggaaccg gacacacgca tactacgcct ggcaccgcaa 180

ccaggacggc gccaaaggtcg tcgccgacgg cgtctggctc actaacaggt actggatgcc 240

caccgacgac gacatcaact gatgagtgat gatcacatca tgcatatgcc atcgccacca 300

ctcatcaccg gatccgggag ttcg 324

<210> 40142

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-E4

<400> 40142

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caacatacac taatgccaaa agaatagtga aattgggtgaa tgatgttggt gctgttgtga 120

acaatgatcc cgaagttaac aaatatctga aggttgtctt tatcccaaat tacaatgtat 180  
cagtggctga agtgcttatt actggtagcg aattgtcaca gcatattagt actgctggta 240  
tggaagcaag tggaacaagc aacatgaaat tctctctgaa tggttgtgtt atcattggca 300  
cccttgatgg agctaattgtt gaaataagag aggaggttgg agaagataat ttcttccttt 360  
tcggtgccaa aaccgatgaa gttgctgggc tgaagaaaga cagagaaaat ggctgttca 420  
aaccagaccc acgtttt 437

<210> 40143  
<211> 415  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-047-Q1-K1-E5

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acacaccatt ctacagtgat ggggaaagcg aacagcttga ttcacagttg aaaatgttcg 120  
agtcaggtgt tctcaatggg ctcaatgaac ctgagctgga gaatttagca gtgaacattc 180  
aggagcttgg gaagggaagc atagatgatg ggaacttgac tcaagttagt gaccagtcag 240  
agctgaacga cgacttctgg gcagagcttt tggctgaaga ttttgagac aaggcaggac 300  
agccagagtt ggagggaaga actgaagacg tgaatgacct tgctcaaaca actgggtatc 360  
tgagttcttc tagcccaaaa tagaaccagn tccctaattg ttgccccaca atcac 415

<210> 40144  
<211> 416  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-E6

<400> 40144  
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ctgattccaa cagcattggg cttgctggac ctggtgtgcc caggttgaac tctagcgttc 120  
ggcgaagctt gagcggttgc acgagcatgc atttgcataa tgatgtggaa gacctaaaga 180  
tgttacttga ggctacttc atgcatctgg atggaattcg taacagaatc ttgtcggttc 240



ggcagtatat cgatgacaca gaagactact tcaacattca acttgacaac cagcgtaatg 300  
aactaataca actccagctt aactgacca ttgcatactc tggcatagct gccaacactt 360  
tcattgttgg agctttagca atgaacatgc cgagctctct gtacaacacc gataac 416

<210> 40145

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-E7

<400> 40145

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cccaagtcct ttactgggtc cgccgccgcc cctatgtact tcgttaggtt tagtatgttg 180  
ttaagtttgt aattctaggg tctggaggga agcatagatc tcaagagggg tgaaatttgg 240  
tggaatttc ctgagaattt caaggagaca agggcgtgga ggttggttct ggagggatct 300  
gtgagcaca 309

<210> 40146

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-E8

<400> 40146

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ctgctgtggc ggccaagaca cctctaggta tcaaagctaa agaagctatg aataaggag 180  
agcttgtttc agatgatttg gttgtgggca ttattgatga agctatgaag aaaccctcat 240  
gccagaaagg ttctattctt gatggctttc ctagaactgt gactcaagca cagaagcttg 300  
atgagatggt ggcaaagcaa ggtgccaatg ttgacaaagt cctgaacttt gcaattgatg 360  
atgctgtatt ggaagaacgg attactggctc gttggatcca ctcagccagt ggtaggactt 420  
accactcaaa atttgca 437

<210> 40147  
 <211> 407  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-E9

<400> 40147

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gcctccagaa cctgctcaag gagcctccaa tcgtgggggc caggtcgatg aggcggccct  180
ctccgctgaa tctggcgatg gtccgcggcg gcagtcgccg atcaaacacc gtcaaaactt  240
tgcaggcccc tggggcgctc acttccggtg ccgagagcag cgccgtggag atgggcaccg  300
agaagtccga agtgtacagc actaacatga cgcatgctat gggagcagcg ttgacatata  360
gacatgaact cgggatgaac tacaatttca tacgcccaga cttgatt                    407
  
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<210> 40148  
 <211> 375  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-F1

<400> 40148

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gccccactgc gtgctccagg aagagttgga aacacatgat ggctgagca aagggaagta  180
taccattggg cttgggcagg aaagtatggc attttgcact gaagttgagg atgttatttc  240
gatgagcttg acagtgggta agtccctcct gaaaaactat aacattgacc catagtgcac  300
tggaagtgtt gaagttggca gtgaaacagt aatagacaag agcaagtcta taaagacatg  360
gctgatgcag atatt                    375
  
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<210> 40149  
 <211> 352  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-F10

<400> 40149

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cgggtgggtggt caaagttctc tgggttatct ctttgaagc ggtgagcccc ccaaaccatc 180  
agtggcacca gctgcaagtg ctccacctgt tgagaaacca tctgctgcaa agactgatgc 240  
ggccaagcag gttgctgctg gggttaccag ccaaaccaat tactaccaca gggctgatgg 300  
tcagaacact ggcaacttcc ttacggaccg tccttcaacc aaggtccacg ct 352

<210> 40150

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-F11

<400> 40150

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ctgcactctt ctcttccact gtcgcagccg ccccttgtag aagcttcgag gctgctgctg 120  
ctgcgcccat ggccgcggaa ggcaagacgc cgtccctcgc cgaggagtat tcaattccac 180  
cacaggaagt tccagtggaa aaggcagctg aggagaagcc ctctagtggg actgagtctg 240  
aagctgctcc ctcaaccaat gatgaaactc ctccatctgt agaagacaag aatggaactt 300  
ctgaagtaca agatgctgct gaaaaat 326

<210> 40151

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-F12

<400> 40151

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gctttgcaaa aaccggttat tccaggaaga aaaacgaacc ctctccatcc actgcaatga 120  
gttgctgct agagcggaat ccagcgcgga ggatgactcg cttccaaaag aagctcagat 180

ttccatcatc cccgatcagg atgagctaca tgatttccca gcctatgcta cttgatttgc 240  
 ctccaataat tatgtttgat gtagaaaaaa acaccatttt ggaggcgcat gggcaactga 300  
 gcaacactat gtattaacta tctcgtagat actacagcag aggttccttg taaagcaggt 360  
 tgagacgac attctgcagt tcttattata taagatgatt acgaaggtaa catgtttggg 420  
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<210> 40152  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-F2

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 acgggtctcaa accgtgctaa ccacccaaag aagttcgagg tgctgccagt ttatcagagt 180  
 tcttttgctg caggggatga tttttcatcc cttactgatg atagaaagac aagagcattg 240  
 gttcatgcta tgggtggagat tcttttttta tgtggaactg ggaaaagagc tgttgtagca 300  
 tctgttgac gtgccaatcg tgggaaaatt gatgcagctt tggaagatct ttctgtcgaa 360  
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<210> 40153  
 <211> 323  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-F3

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 ccgccgatgg cctgtatgag tttgggttcgc tcatgtcagc tacactgagc tgtgaccaca 240

gggttatcga tgggtgcaatc ggtgcggaat ttctgaacgc attcaagggc tacatcgaga 300  
tcccgacttc gatgctgctg tga 323

<210> 40154  
<211> 434  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-F4

<400> 40154

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atgttaaadc tggcaaagt cttcatgttt atgaacatcc tggcattggt ttgagatcat 180  
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tttgggattt agatggtaag gaagtagatt gctggaaagg gcagagatcg gcaacaacat 300  
ctgattttgc tntagcaaaa gatgggaatc ttataataag cttgagtagg gacaatgcaa 360  
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cttcattttc tcta 434

<210> 40155  
<211> 428  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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tcagcgagta cagcctcttc ccctcagcca aatcccacag cagagtaaca ccgtccttcc 180  
cgccggaggc gcacagcgac ccgtcggggc tcacagcgac ggcgttaaca tagccaccgt 240  
gcccattccag agtgcagcgc agcttgcaat tggttaagggt ccagaccttg acggtgcggt 300  
cccaggatcc ggagacaatg gtgggctgga aggtgttttg ggagaacctt acgcaggaga 360

cccacccggtt gtggccctcg ccgncgccga ggtcgccgcc gatggtgtac ttgcactcgc 420  
cgagagtg 428

<210> 40156  
<211> 434  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-F8

<400> 40156

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ggccgtgccg tcgtcgtcga cgctcgcggc gcgcggcggg gccggggccg gcgcgcgtct 180  
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ggtcgccgag aagctgagcg aggcggggct ggccgtgctg cggcagttcg cggacgtgga 360  
gtgcgcctac ggcatgtccc ccgcggagct cctcgccaag gcggcgagct tcgacgcgct 420  
catcgtgcgc agcg 434

<210> 40157  
<211> 380  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-E3

<400> 40157

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caccgcagtc tcgagactgc gatcacgcat ggcgccaggag gccaccacgc tgggggggtgt 180  
gaggtggctg cagatgcaga gcgcgtccga tctcgatctt aagtcccagt tgcaggaatt 240  
gattccggaa caacaggatc gcttaaagaa gctcaagtca gagcatggaa agaccagct 300  
tggaacata actgtggata tggtccttgg tggaatgaga gggatgactg gaatgctttg 360  
ggaaacattc ctacttgatc 380

<210> 40158  
 <211> 404  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-D1

<400> 40158

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 caagtgcacc gagcagaagg gcatcacggc gccggccatg aaggtctgcc aggaggagtg 180  
 cgacaaggcg tacgtggtga aggcggccga ggtcaccaag gcctgcagcg tcacctgcgc 240  
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 ttgaagcgaa gcccttgaa atgaatgaac catgcatgca tgcatttatg catgcgccgg 360  
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<210> 40159  
 <211> 277  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-D10

<400> 40159

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 ggtccttcga catcaccaag ttggggcgct ccggcaatgg caagacagac agcacgaagg 180  
 ctgtgcatga ggcattgggca tcggcggtgcg gcggcactgg gaagcagaca atcctcatac 240  
 ccaaggggcga cttccttgtc ggacaactca acttcac 277

<210> 40160  
 <211> 432  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-D11

<400> 40160

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 gatgttggtg ctggtttggc tttaatccat accgacttct accgctttta cagtgttttc 180  
 aaacattcag ctttaatccg aagcgaacaa ctcatctgat accacgtcgc tggcgaccct 240  
 cacgacggat gcgcctagcc gcgatgactt gatggcgagc aggccgtggc taccctcgcc 300  
 cccgactcat ccgtcgtatc attagcgcca ggcaggaagc acaagttgaa cgccaccaca 360  
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 ttttataact ga 432

<210> 40161  
 <211> 450  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-047-Q1-K1-D12  
  
 <400> 40161

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 gttcgacagg gagggcgacg ccggtcacga cccggtcagc ggcttgccgg ccgacccggc 180  
 gcccgacgag cgcccctaag gctacgcacc gtcgtcgttg tcgtcaccgc cgtcgccgtc 240  
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 gcgtgcgttt tgcattgctt gcgtgcgttt tccttcggct gccgtgccga ttggtcgtgg 360  
 tggacgcagc gccatggata acgggatcta agtactcacc cgtgcttgct gtacctgtac 420  
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<210> 40162  
 <211> 228  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-047-Q1-K1-D2  
  
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gacgcctagg ttgtcactac agagagtctc ctgctaccaa actctcacac cccatacctg 120  
 acttgaccaa cacgcacgcc ctgactgacg cataagctca tgcatacttg atttgattta 180  
 aacaccaatt ctgtactttt actgaacatg ctactctttt catcattc 228

<210> 40163  
 <211> 376  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-D3

<400> 40163

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 cacgcgtgga cgtcgaggag ggtacgtcca tggcatccat cgatgcaccg gaggcggcgg 180  
 tcgatgctcc cgctactaga cgcgactccg tgtcatcccc agactcatcg tcagaggcgc 240  
 cctgcagcag caactgctcc gactagacgc aaaaacctct tcattctgtg gaataactaa 300  
 cagtatatac gttgcaccct gatgatatat aaacatgtac gtgcattagc gtatggaatg 360  
 cgagtggcaa acacat 376

<210> 40164  
 <211> 408  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-D4

<400> 40164

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 agatgattac agcgacattt atgtccgac aggaatacag tactaagttc ccaaacttgt 180  
 gagcatatgc ggggaagagt tggtcagacc cgcatagttc gttcggagag tttgctagtg 240  
 ctgtatcggt ggatggtaga ctagacgaac accttattga ttgtatgaca ggatagtttc 300  
 agttgcagcg ctggtcgtgc gtacaatgtt tgatgtactt tatttacggc atcacacaca 360  
 gtgaccatcc cttattttgt ccaccgaatg aaatgcccta tgatctcc 408

<210> 40165  
 <211> 336  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-047-Q1-K1-D5  
  
 <400> 40165

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gccatccgag cgaacaagcc aaccgacccc gtccccaagg caatccgccg ccgacgtacc  120
accaccaccg caggagcgag atggagatga agaggatcct cttcgccgctc ctcgtcgtca  180
tcgccgcctc ggccaccgca gtgctggcct ccaccgaggc cgccgccgcg ggcgccccaa  240
ctgcctccga gtcgtccgcc gaggtctccg ctggcgctgg cgctggcgct gccgctggcg  300
ccgacgactc ggggccctac gncagcagcg gcgcgc                                336
  
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<210> 40166  
 <211> 440  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-047-Q1-K1-D6  
  
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cagcatgcac gccctgactg cagtgtatgc tcaagcatac ttgattcggt ctgaacaccc  180
attctgcaat tttactgaac atgctacgct tttcatcatt tgaaaaaagg cgccttgata  240
gcaatcagtt cagtggaacg atcaacccat taatggaaaa actagccaat ctcaaggagc  300
tgttagtact cgatatctca tttcataatc tatctcaaac agtgtctgca gacattcttt  360
acctaatgca ttttctcaaa aaatggcaga cacctgaaca acagcaatct cacgggcaaa  420
ataccagatg gtctgaaaaa                                440
  
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<210> 40167  
 <211> 417  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-D9

<400> 40167

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ggcaggcggtt cgtggacgag cacctgatgt gcgagatcga gggccaccac ctgcggcgg 180  
cggccatcgt ttgccacgac ggtgccgact ggtcgcatag cacggcgttc cctcgagtcc 240  
aagaccgagg acatggccaa catcatgaat gacttcgacg agccagggca ccttgcgccg 300  
acaggcctgt tggctgggtcc taccaagtac atggtcattc aaggcgagcc tgggtgccgc 360  
atccgttgca agaagggatc aggaggcatc accgtgaaga agacagggct ggcactc 417

<210> 40168

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-E10

<400> 40168

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gacgaatgca aactcaagtt cctggaactc aaggcgaaga ggagcttccg tttcatcgtg 120  
ttcaagatca acgagaacgt gcagcaggtg gtggtggaca ggcttggggg accaggtgaa 180  
agctacgatg cgttcagggc ctgctttccc gccaacgagt gccgctacgc ggtgtttgat 240  
tttgactttg tcaactgatga gaactgccag aagagcaaga tcttcttcat ctcttggggc 300  
ccagatgcat cgaggggtgag aagcaagatg ttgtac 336

<210> 40169

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-E11

<400> 40169

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cctagtcttt ctgactcaaa tgaaacacca aagcagctgc ctatagtcac cagtgcacaaa 120

cgaaccggca acatagctcg ctttatgaac cacagctgct cacctaattgt gttttggcaa 180  
ccagttctct atgatcatgg tgatgagga tatccacata ttgcattctt tgcaattaag 240  
catattcctc caatgacaga gcttacctat gattatggcc agaaccagcg taatagtatt 300  
caaatgggaa cccattctgg ttttcggaag tctaaaagtt gcttatgttg gtccccgaag 360  
tgagaggtt cctttggcta aaaaccagcc ctataaagaa tataatggat cataatactc 420  
catttcaaa 429

<210> 40170  
<211> 392  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-E12

<400> 40170  
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cacaccaag gttgcgcccg aggccactcc aatctccgtt gaggttgccg ctgatgaaca 180  
ggtagctgag aaggtggttg tggaggagcc ggctgcggcg gccgacgttg agcatcagaa 240  
ggctaagtag gtgctcgctc cagaggcggc cgtcgccgag cccgaccaca aggaggagga 300  
agccgtggag aagaccgtcg tcgaggagga gaagccagcg gcagcagccc atgcagagga 360  
aaaggtcgcc accgccgccg agaccacgac ga 392

<210> 40171  
<211> 425  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-047-Q1-K1-E2

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ttcggtgtcg tggtcggcgt cctcgtgtcc gcccgctgga tcaccaccac gactcatctg 180

tcgaccacca atctggatca gtggagctca aagctggcta tcttaaccgc gacgcacacc 240  
acctcctgca tcccggccat ccccgcggca ccgccgccga ctcggccgac ctactccctc 300  
tgctgcccgg cgcgcgcgct tcaccgtgac ccgaccatgc ccagcaacat ctcccagacc 360  
ctcgacctcg tgctctcccc caacgcctgc tacgccttca cttgcgccgn ctttcccgac 420  
cccc 425

<210> 40172  
<211> 330  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-C8

<400> 40172

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taattgttgc aggccttgat tgtacaacta gctgtctgct tcaggccaat agcgacctta 180  
aacttgtcga cccacctaca gtgtctactg cgactttttt taccggcaat aaccttcctc 240  
tgttatctaa ttggactaac aatatatctt cttctgacta ataaacgtct gatataattac 300  
tctgaatcgt taaacctttt ctttttaaat 330

<210> 40173  
<211> 256  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-B12

<400> 40173

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tgagtgaaca gagcagcagc tcggatcaaa cagaagacaa gctaactatc tagcacaagt 120  
ggctgcaaaa tctctaccca agggctctcca ttgccttaca ctgcggctta caaatgagta 180  
ctatttcact aactcaaaga ataaagactt tccctacgtg gagaagctgg aagaccccaa 240  
actctatcat tatgcc 256

<210> 40174

<211> 261  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-047-Q1-K1-B2  
  
 <400> 40174  
  
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 aacggtggca atcatctata aaggttccat tattcgctcg cgaaaaaaaa aaaaaaaaca 120  
 aaaaaaaaaa aaaaaacaaa aaaaaaata aacaaccaa aaaaaaaaaa gacaaaaaac 180  
 gcgcatacac aagaaaaaaaa tatagaacag cgtcaaata taaacaacga gacactatat 240  
 ggagcataac attaaaaatt a 261

<210> 40175  
 <211> 383  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-047-Q1-K1-B3  
  
 <400> 40175  
  
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 gctgggcatc aaggagctgc tgccgccgtt catcggcacc gacctgcagc tcgaggacct 180  
 gctcaccggc gtggccttcg cctgcggcgg cagtggctac gatccgctca cgtccaagct 240  
 cgcggttaact ttacacgtcg tcctccggaa gctagctagc tagctagctg cattaacaca 300  
 ctcacgtact cctacgtact gactactgaa gatgttatct gagactgaga acaataaaac 360  
 ccgtactact actactacgt acg 383

<210> 40176  
 <211> 446  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-047-Q1-K1-B4  
  
 <400> 40176  
  
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gccgccgatc ggttttcggag aagagaagca aatcaagatg tttctcggct cgctcccgcg 120  
 gcgcccgagc aaggaggctg cgtacaagca gctgcggctg cacatcatca tcatggcctc 180  
 ctgcgccgtc gtcattccgcg ccaccctta catcctccat ttctcgcgcg gcgacggcga 240  
 catccaggaa ctcaagctcg atctgtaggc ccgtccgttg cttccccacc ttcagagggtg 300  
 ctacaaaggc aaccgttagt tcgaggccac tgcaaggtag tatggagtta gtggctacag 360  
 tgcttgctta agttttcttg gtgttccaag tttagtga aaactgacaa tgggtgtagca 420  
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<210> 40177

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-B5

<400> 40177

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 gacctctca cggccgacgg cgtcacctac cataagacat gcttcaagtg cagccactgc 180  
 aaagggatcc tctcgatgtg cagctactct tccatggacg gtgtgctgta ctgcaagacc 240  
 cacttcgagc agctcttcaa ggagaccggg agcttctcca agaacttcac gccagggtggc 300  
 aagtcttcag acaagggtga actgacaagg gccctcagca agctatcatc tgcgttttct 360  
 ggtactcatg ataagtgtgc tgcttgccag aaaacagggt acccgctgga gaagttaact 420  
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<210> 40178

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-B6

<400> 40178

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accacgacgc cgcttgcgtg tacaagctgc tccagtgcga gcagggctgc gacaagcgcc 180  
 tgctcaggcg cgacatggac cgccactgcy tcaccgtctg ccccatgagg cccatgaagt 240  
 gccccttcgg ctgcgattcc tccttccttg accgtgacct cgagaggcac tgcgccgagt 300  
 tccttcagcc gcattctgctc atggtcctta aggccatcca taagaaaggc cggtcggaac 360  
 aagacctcaa ggaccttgct caaaagctgg aaaagtttga tggagatggg aaactggcta 420  
 aggtcttgga tgcaagacc 439

<210> 40179  
 <211> 436  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-047-Q1-K1-B7

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 agggaaagat ccatctacag atttcagggg tgggtggttt atatctttgg agaatttact 180  
 gtattttctc aagaaatadc caaaatcctt ccatgagctc cttcgtaagc agaattggtga 240  
 tagagcattg tgggaatacc cctttgctgt agctggtgta aatattacat tcatgctaatt 300  
 tcagatgctt gatcttcaag cagctaagcc aacgtcattg gttggagcag ttttctctaaa 360  
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 ggatcagaaa tggctt 436

<210> 40180  
 <211> 438  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-B8

<400> 40180  
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 ggtttaccac tctagtttcg ctgatgatga tgggatcaca aaagcttgca gctgtccttt 180



gcttccactg aaaactcata tcaagggccc ggcaccagcc tctgaccctg ataaagcgga 240  
cattgttgat gaagccataa ctttctttcg agccaatgtt ttcttcaaaa atttccatgt 300  
gaaaagctca gcagacaagt tattgatcta tctgacgttt tatatcaata ttgccttaaa 360  
aagactagac ggttgccgga cactagctgt tgggactaaa gcaatcatta atctgggatt 420  
ggagaaagtt cctgtacc 438

<210> 40181  
<211> 280  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-C10

<400> 40181  
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ccctccgtcc tcgccgaac ggcagcgggg tgctcaccgg cttgaggatc gggacagggc 180  
actacggcgt gcggctcgcg ctttcttcgt ccgcggcagc ttctcccaaa gagttcgagg 240  
tcgcttgccct tcctgtcgat gatagcagat tgtgcccggg 280

<210> 40182  
<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-C12

<400> 40182  
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tcttctcgga tactgtctgt tcccgtgga cgtgggggct ctgatttgca tgcttaagga 180  
cagtgtcata ctaaagatgg ttgtggtgac ggtaacattg gcatggagct cttgggcagc 240  
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gttcctcatg tatactcag ttgcctgtct cataattgct ataaattaaa ggccggcatgg 360  
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436

<210> 40183  
<211> 413  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3075-047-Q1-K1-C2  
  
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gaccttcacc tccaggagct cgcccgttc gccgtcgatg agcacaacaa gaaggccaat 180  
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tactatctca ctattgaagt gaaggatggc gaagtcaaga agctctacga agctaaggtc 300  
tgggagaagc catgggagaa cctcaagggg ctgcaggaat tcaagcctgt tgaagagggt 360  
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<210> 40184  
<211> 187  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3075-047-Q1-K1-C4  
  
<400> 40184

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gaactataac cgcggcacat ctttcogttc attgtgttca cgatcgatga cactgccatg 180  
gagaaca 187

<210> 40185  
<211> 386  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3075-047-Q1-K1-C5

<400> 40185

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acatggtggc cggcctgcag ggcgacgtcc cagcgatgca cctgaagggc gtacccttcg 180  
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ccatgggcat caacgagagc tacacgggtg tgagcttgca cgacctcatg cagattcaca 300  
tgctgcccta cgacaactcc gtcattaacg gtttatcctc cgggatgac tactacttca 360  
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<210> 40186

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-C6

<400> 40186

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tttacgggga acttcaatga gtattttgcc tttgccaccg atgtagatgc agtggtttac 180  
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tatcggatgc atatggctgt ggctgacata tggatcgacc ttatcaagca cagtgatgaa 360  
acttggaaga tgggtgatat tgtgcacaca ctgacaaata ggacgtgctt agagacgtgt 420  
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<210> 40187

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-B11

<400> 40187

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 ggcgacgtga ccatccaggt gaatggcaat ctgctggcga ccacggacct aagccagtac 360  
 aaggatcatg gtaattggat cgagattcta cgcgtggaca accttgatcat caccggcaag 420  
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<210> 40188  
 <211> 373  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-H5

<400> 40188

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 ctcaagagga acgtcttccg tggctcctgg atgccaagag gtgatgctct gaagaagctt 180  
 gaggaaaagg gtgtagctat tcgttttgtt attggtcgga gtgcaaatacg aggtgatagc 240  
 ttggaccgta atattgatga tgaaaatcgg cagacaaagg acttcttgat tcttgaaagt 300  
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 gaagcctggg atg 373

<210> 40189  
 <211> 420  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-046-Q1-K1-H6

<400> 40189

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 gtgctgagta tggaagcggc agttctcgtg attgggctgc taagggtccg atgctcctgg 180

gagttaaagc tgtaattgcc aagagctttg agcgtatcca cagaagcaac ttggtgggga 240  
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 gacatgagcg gtacagcatc gatctcccta ccaacctcag tgagatccgt cccggccagg 360  
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<210> 40190  
 <211> 480  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 40190

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 ggccgctggc ccgttaaata agccagggtc atcctggatt tgctgaagaa tgctgagagt 360  
 aacgctgatg tgaaaggctn ggatgtggac aacctctatg tttcacacat ccagggtgaat 420  
 caagcccaga agcagatgcg ccgtacctac cgtgctcacg ggccatcaa tccctacatg 480

<210> 40191  
 <211> 226  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-A10

<400> 40191

aaaaaaccag cagctagcga tggctggagc ccgggcactg ctcacgtcc tcgcggctgc 60  
 cgtcgcggtc ctggccgcbc ggccggcgtc tgcacgcggg ggagccgcbg cggtggcgga 120  
 gatctgcatg aaagactccg tccccgacct gtgcaccagg acggcgggga agcaccctaa 180  
 caaagtacaa ggtggtggac gcggtgacgg tgctagagat gcaggt 226

<210> 40192  
 <211> 443  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-A11

<400> 40192

cagggcgcac gaggagaacg gcgggcgtctg agatcgcgag gccgaggctt gtcccgtccc 60  
 cgctcggtc cgctcctctc acccacggtt tctggaggac aattctttgc tatctagcct 120  
 tcctcaaaag taaaaagggg aaatgggatc agaaggacct tcagttgtca ctgtccatgt 180  
 tactggattht aagaagttcc atgggggttg tgagaaccca actgagaaaa ttgtgaccaa 240  
 tcttaaatct ttcttggaag agcgagggtt gccaaaaaat cttgtcctcg gaagctgcac 300  
 agttctcgaa acagcagggg aaggggcact tgccacatta tataaggtht tagagtctgc 360  
 tgttgcagac agaggaactg ggtcctcggc acagggacaa gtaacttgga tccactttgg 420  
 ggtcaacagt ggcgcaataa ggt 443

<210> 40193  
 <211> 301  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-A12

<400> 40193

agttaacctt gacaatcgcc aaattactga tgttggcctg gcagcactta taagtctcac 60  
 taggctgact catcttgacc tttttggagc ttgcataact gacaatggca caaattgctt 120  
 cagatatttt aagaatcttg tttctcttga agtctgtggt gggttcgtta ctgatgctgg 180  
 agtgaagaac atcaaggatc tgaaggccct gacgttgctg aatctttctc aaaatgctaa 240  
 tctgacagac aaaaccttgg agctgatctc tggcctgact gctttgatca acttgaacgt 300  
 g 301

<210> 40194  
 <211> 402  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-A2

<400> 40194

aaaagatggt ccgtttgaaa gaattgataa gagcttcagg gggaaggatg gagttactaa 60  
atgatacaga cagaaaatgt tgttaacgaa aactatgaaa gtagttcgtc aggcgtgtat 120  
gtcaaaagca gggtacgata aggcgatgga tgtgttggat gagctcgatg tcgttctaag 180  
ccgattggag ccagatattg gatgtaatga gtcaacagat gttagtata atgaggaaga 240  
caaggaagaa gagttgaata aaattaatgc tagcgatggg atggaagatg acaatacaat 300  
tacatgtcat aataaggatt cgcataacac caggactgga tgtgaacatg cattaacaat 360  
aataacaact ggtaaccaag aagacaacat gggattttca ca 402

<210> 40195

<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-A3

<400> 40195

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ggtgtccacc ttgagatgac cggtcagaac gtgaccgaat gcacgggcgg gtcaagcaac 120  
gtcaccttcg acaacctgag agaccgctac cacacgcatg gcgaccccag gctgaacgcg 180  
tccaagtccc tgaagctcgc cttcatcctc gccgagaagc tgaggaaccg aaggatccgc 240  
cggtcgtcgt t 251

<210> 40196

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-A4

<400> 40196

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cgctcctcgc ccgtggccgc gtccgccaca gtgccggcgc acggccgcga taccgccgact 120  
gagatcaagc tcatcaaagg cacggacgcc ttgggcgtgg gcgacgacag catggagtgc 180

gtgtacacgg tgttcatccg gacggggtcg atcttgaagg ccgggacgga cgcgaaacgtc 240  
acgctggagc tggccgccgc ggacggcaac ggcgtgggga tctcgaacct gccgcctgg 300  
ggcgggctca tggggcaagg ctactcctac ttcgagcgca gcaacctgga catcttcagc 360  
ggccgcgggc cctgcatgga gaaggcgcca tgctggatgc ggctggccac cgacggcacc 420  
ggcgaccacc acgggtggta c 441

<210> 40197  
<211> 428  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-A5

<400> 40197

ggtcgacgac gcgtgcgccg acgcgtgtgc cgacgcgtag gttcgacttt cactttcaag 60  
acggaagcca gcctggacgt gttcaccttg atatgaccgg tcagaacgtg accgaatgca 120  
ccggcggggtc aagcaacgtc accttcgaca acctgagaga ccgctaccac acgcattgcy 180  
accccagget gaacacgtac cactccctgg agctctcctt gatcctctcc tagaagctga 240  
agaagcggat gatgcggcgg tcgtacttgg cgctgtgtct cggcggcagc atcttgtcct 300  
tgacgaactt tgggtcttga tgtcttgca cgtatctgtg tgcattgcaca gtgcactgca 360  
tgagtgtggt atgagaatct tacgttgctc attgccttgc tatgtaatat gtaatgcttt 420  
aatttact 428

<210> 40198  
<211> 138  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-A6

<400> 40198

gtgttctctt actccatgta aactactcta gacagtgtc ggtgagtaca gctgctcgg 60  
gagtacggtg tcacagtcac tccgtgtagg cagtgccatt tcgaagacaa tattgcaaaa 120  
tttaactaac ttggtttt 138

<210> 40199



<211> 442  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-A7

<400> 40199

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atctttccag atatgatcag atacaaaggg ctgacccatt ttgacgtcga caactttgtt 120  
gaagaagtgt ttgtgaagga tattgactgg cttcctggat ctctgagcc tataagcggg 180  
tcctatgttt tcgtttgctc ccatcaaaga agggatataa ggtgtggtat tcgtggacct 240  
gctttgatta aaaggttcaa ggaagagata aatggactgg gacttgatgg tcaggtggct 300  
gtcagtgcac gtcacacgt gggagggtcat aagtatgcag gaaatgtcat cattttcagt 360  
tctgatgcc aaggagaagt gatgggtcat tggatgggt atgttgtccc cgacgatgtg 420  
cctgttttgc tgcataaaca ta 442

<210> 40200  
<211> 437  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-A8

<400> 40200

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gccatggcga actcgtcgtc cggccttgcg gtgaacgacg agtgcaagggt gaagttccgg 120  
gagctgaagt cgcggcggag cttccgggtc atcgtgttca ggatcgacga cacggacatg 180  
gagatcaagg tggaccgcct cggcggaccg aaccagggtt acggcgactt caccgacagc 240  
ctccccgcca acgagtgccg ctacgcgatc tacgacctcg acttcaccac catcgagaac 300  
tgccagaaga gcaagatctt cttcttctcc tgggtcccctg aactgcacg caccaggagc 360  
aagatgctgt acgccagctc caaggacagg ttcaggaggg agctggacgg catccagtgc 420  
gagatccagg ccaccga 437

<210> 40201  
<211> 449  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-A9

<400> 40201

gccattcaag atgttgtttc cttgctccgg tgcacaaggc agagcctagg agtcatggca 60  
tcaagcagag gggcactcat tgggcgcctt gtgttgcattg aaccggacgg ggagcagatt 120  
gactgctcca ttcttgagc ttcaggacat gcaattacgg gggacctgaa cctgttgagc 180  
aaattaaatt tgtcttcggg ctctcggtac atcattgtgg tggagaagga tgccgtattt 240  
cagaggctgg ctgaagaccg cctgtataat cagctccctt gtattctgat cactgcaaaa 300  
ggatatacctg atattgccac aaggttcatc ttgcatcgac tgagccagac atttccgaat 360  
atgccgattt tcgcattagt ggattggaac ccagcagggc ttgctatact gtgcacttac 420  
aaatacggaa gcataatcaat gggcctaga 449

<210> 40202

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-B1

<400> 40202

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gtcctggaat cactaaatct ctgcaagggtt ggtcagtact tgaagtggcc aaagtggccg 120  
atatgggttg tgggaagtga aagtcactac acagtccttt tttgccttga accccaacgt 180  
tcaagaggag aatgagctgg aagagcgcga atcaaaaata aggagggtt ttgatgcccc 240  
agatcaaagt ggaggtggag gctttatcag cggtgagggc ttccaacaag tcctcaggga 300  
tactgacata aattttcctt cggataaact cgaggaccta tgtaatgctg ggattatagt 360  
atggagtga tcttggcagg c 381

<210> 40203

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-B10

<400> 40203

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atgggtggga agccgcagca gatctacgag gatgccgaac atctcatgcg cccgacctta 120  
tcaaattctt tggcttcgaa gacggtaatg caggaagatt tgtgtgagac gaggtcgtct 180  
ccgtgctcga gggccaacaa agcgagcgcc tcggcggcag ccttcctggc ggccaatcg 240  
tcggccgtga gcgcgtcgcg gaggcaaggc acggcggcgg aggcggcttc accgccgat 300  
gctgccgagg cagcgccgat gatggaaatg agcgcgggct tggccttgaa cgccgcgctg 360  
cggatgacct tgtataggct ccggaagagc ccccg 395

<210> 40204

<211> 418

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-046-Q1-K1-H4

<400> 40204

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atcactactc aggggaggat gaggaactat atcagctatg ggatgtcgtc gcttgaggaa 120  
aatggacatg atgagattag tatcaaggcc atgggacggg ccataaataa gacagttatg 180  
gttgttgaat tgatcaagag aagggttgga ggtcttcac agaacactgc tactgaatct 240  
gttgatatca cagacacatg ggaacctttg gaagaaggcc ttctcccact agagacaact 300  
cgccatgtgt cgatgatcac tgtgacactg tcaaagaacc ctctggatac atcatctnca 360  
ggataccagc cacctatccc agctgaagag gtgaaacctg cttttgacta tgatcatg 418

<210> 40205

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-F7

<400> 40205

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gggatccttc ccaactcgct ggtgatggac ttcgtgaaca acggggaggt gtccgggatc 120

acgctgctca actccaagtt ctccacatg aacatgtaca agtgcaagga catgctgac 180  
aaggacgtca atgtgacggc gcccggggac agccccaaca cggacggcat ccacatgggc 240  
gactcgttcg gcgtcaccat caccaacacc gtcacggcg tcggcgacga ctgcatc 297

<210> 40206  
<211> 355  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-F9

<400> 40206

ctcaggtttg gggggaaaag gcctcgcggg tcgcaaaccg ctctctgttg atttgggatt 60  
tgggaggcgc tcgagttttc aggtaaacca tagtttagtg accaatggct cgtactaagc 120  
aaactgctcg caagtccact ggagggaagg ctctaggaa gcaacttgcc accaaggctg 180  
ctcgtaagtc tgcaccacaca actgggggag taaagaagcc tcacgtttac cgccctggaa 240  
ctgttgctct tcgtgaaatc cgcaagtatc agaagagcac tgacctgctc ataaggaagc 300  
ttccgttcca aaggcttgctc agggagattg cccaggattt caagactgat cttcg 355

<210> 40207  
<211> 263  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-G1

<400> 40207

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cgctcgtagc ctccgagagg aggattggag aggcaaccaa ccatccacga cgggatcgca 120  
ggagctgatg ccccggtcgc ggaaagcaac ggcgacgaga ttctgtgcac gcgagacgcg 180  
gcagagaacc gacgaggagg acgcgagccg cgtgacggat gatccgcggt cgccactcgc 240  
tctcggggcg ggaaggcatc ggt 263

<210> 40208  
<211> 300  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-G10

<400> 40208

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accacatctc tctcacccta acgaaggctg cccgccccac ataccacgct cctctcctac 120  
atccttataa gatttaccat caccacgggc caggcaccgg cacatctacc aattgctctc 180  
acagctgcta tatcaccgcg cgtggccacc gaatgcgcta tcccttaccg tgaccacac 240  
ccagtgcac ctcgagttct taccctatga gagcgacacc ctgttcagga acttctttct 300

<210> 40209

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-G2

<400> 40209

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ggcagcgcct ggcgctctac tcgctggagg cgggccccga gtggatcaaa gaaaggggtga 120  
gagacctggt gaaaaaccgc gcgctgctcg tggacgcgct gtccccgctc ggtgacgaca 180  
acgtcagggg cgggcagggc gccatctacc tctgggcgaa gctgccggac acctgccccg 240  
acgatttcga ggtcgtcagg tggctcgca acaggcacgg cgctgcgcgag atccctggca 300  
gcgccagcgg agggccccgg caccatcgcg tctccttcgg agggctcaag gaggaagaca 360  
cc 362

<210> 40210

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-G3

<400> 40210

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caaagctttg ctctttattc ccccgaaggc tccacatgat ctctatgaga gttactacaa 120  
cagtaacaag tcaaacctca agttgtatgt taggagagtt ttcattctctg acgaatttga 180

tgatcttctt cccaagtacc tgagcttttt gaaggggtatt gttgactcag acacgctgcc 240  
cctgaacgtg tcacgagaaa tgcttcaaca acatagcagt ctcaagacca atcaagaaga 300  
agctgatccc gaaaaccctt tgacatgat 329

<210> 40211  
<211> 451  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3075-046-Q1-K1-G4  
<400> 40211

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gtcggcgacc tgagcctcgc ggagtggacg tcgttccttg agaggttcga gcagctgctg 120  
ccggcgggcg tcgaggacaa gaagtgcgct gtgctagggg cgtcgacgtc gtcgtcgttc 180  
tgaccgtgct acgtactggt caatcactac cgtcaccatt tgcattgcata catgcgtgag 240  
tgcgtgctg cgtggatgca aaataataca cgtgtgcatg gcgctgtgct agggacctac 300  
tagctccgtc tggatgcctt ttgtgtgtct actacgtatg gtcgtcgacc ttgtacggtg 360  
gcattggcat gcatgctgtt gggatgggat catgggagtt gggagctgct gtggaacacc 420  
ctttncaaag aagctgacgt gtgggggcaa t 451

<210> 40212  
<211> 336  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-046-Q1-K1-G7  
<400> 40212

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cagccgtgtg gagcaagaac tcctgcacca agaagtacga ctgcaagatc cttcccaact 120  
cgctggatgat ggacttcgtg aacaacgggg aggcgtccgg ggtaacgctg ctcaactcca 180  
agttcttcca catgaacatg taccggtgca aggacatgct gatcaaggac gtgaccgtga 240  
cggcgccccg cgacagcccc aacacggatg gcatccacat gggcgactca tccgggatca 300

cgatcaccaa caccgtcatt ggcgtcggtg acgact

336

<210> 40213

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-G8

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cgtgctgatg gaaatccagg acaagttgtc ggctgagtgg aagcccatga agctctcttg 120

gggcgccatc tggaggatgg aactgccaa ggcgtcaag ggcccccttct ccatccgcct 180

caccagcgag tccgtcatga aggtcatcgc caaagacgtc atccccggcga actggagacc 240

cgatgccgtc tacacttcca acgtccaatt ctactagact ttgaattccc ttcgattcat 300

acggcacagc gggctatgga ccttcagcag caagctaatt aagttggcag catgcaccgc 360

taaccttata tactactgag acttccaaat tctagtatat gtaatccttt tgttcggggt 420

catgatcgaa ttccatagag tggaaaacaa g 451

<210> 40214

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-G9

<400> 40214

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agcagaaatt aactaaagac acatgcatag ctacatgcc aacaggaatt catgtatcat 120

tgtacatggt gcctgagtat atcaccatgc taattgtaga agccattaca catcttttct 180

aatcaataat gcatcttcta aaaccaactt ctataactac attgcaggat cct 233

<210> 40215

<211> 362

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-046-Q1-K1-H1

<400> 40215

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agaagatggt acttatgcac ctaaggagaa aaggaagaag caagaggaga aagctgctga 120  
gaaaaaacga cgaacagaag aggcacaaca agctggcctc aatgctgctg ctgccccaaag 180  
caatggaact ggctatcaag cgtctcgtct gggcaaggcc tcacaggagc cacctgcgcc 240  
ttcgaacaac atcctcttca tccagaatct gccagaccag accacgagca tgatgctcca 300  
gatcctgttc cagcagtacc ctggctcncg ggaagtacgg atgatcgaag cttaccagg 360  
ca 362

<210> 40216

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-H12

<400> 40216

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cgcccccaac atcaccacca actacaacgg caagtggctc accgccaggg ccacctggta 180  
cggtcagccc aacggtgccg gcgctcctga caacggcggg gcgtgcggga tcaagaacgt 240  
gaacctgcca ccctdcagcg gcatgacggc gtgcggcaac gtccccatct tcaaagacgg 300  
caagggcttg ggctcatgct acgaagtgag atgcaaggaa aa 342

<210> 40217

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-H2

<400> 40217

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cctgctcatt gtgtccaccg atatggcaca ggcaaggga tgcgagaagt acagtgagcg 180



atttgttggg gcatgcatga tcgcagacaa ctgcgccaat gtgtgccgcg gtgagggctt 240  
 cttggccggc aggtgcagca ccttcgccg tcgctgcac tgcactaggc agtgctaaac 300  
 aagatcgctc gatcgctcgc catgcatcga caacctattc ttaataacgt tcattatctc 360  
 cgtcttattt atgacgaatg tcatgtatgt tctggtgact gtcatgtata ttctgatgac 420  
 tgtcatgtat ctcggtcatg tatgctc 447

<210> 40218  
 <211> 285  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-H3

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 gagcgcaagg tgcagaagag ctactgggag gagcactcca agtgccctcac tgtcgagtcc 120  
 atgatgctcg actcccgtgc cgtcgacctc gacaaggaag agcgacccga gatcctgtct 180  
 ttgcttcctt cttacaaagg gaaatcagtt ctagaacttg gtgctggaat aggacgcttt 240  
 actggagatc tggcaaaaga agctgggcac gttctggctc tagac 285

<210> 40219  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-E10

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 ggacatcaag gagaagggct ctgacacctc cgagcctctg aagcactctt ggggcgccat 180  
 ctggaggaag gatagcgaca agccgatcaa gggacccatc accgtccgac tcaccaccga 240  
 gggaggcact aagactgtct acgacgacgt catccccgcc gaatggaagc ccaacactgc 300  
 ctacaccact tgatagacct tttttatttt tttattcaat aaaaggatat aagggtgtgtg 360  
 acaacaacac aaatattgga ttatctatgg atctcctatg ccatcccaat tttatcatgg 420

acacattttt

429

<210> 40220

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-E11

<400> 40220

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tgtttgttga ggggtactcgc ttactccag caaagcttct cgcagctcag gagtatgcgg 120

cttcccaggg cttaccagct cctagaaatg tacttattcc acgtaccaag ggatttgtat 180

ctgccgtaag tattatgcga gattttgttc cagccattta cgatacaact gtaatagttc 240

ctaaagattc cctcaacca acaatgctgc ggattttgaa agggcaatca tcagtgatac 300

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aatggggtaa agaccttttt g 381

<210> 40221

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-E12

<400> 40221

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cgggggagcg cccccactc ctcttcgctg ccaagaaacc accattccta acggatttct 120

accagtcctt ctttaggatt tccgattcgg ttctccggtg agaggggtggg aattttattt 180

tcctccgctg caaccggtgc aaacatttcg aattccttca ttccattcct ttctgtgcaa 240

tcgaacattc atatgtttct tggctggatt gaggcacccg taccgaatt ttgatgtgag 300

ctg 303

<210> 40222

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-E2

<400> 40222

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ctcttctgca tcgtgcatgg tgagaaggaa gagtcaaagg gcatcgatgc gaaagcgctc 120  
ggctctgggtg ggttcttcga catcaccaag ttggggcgct tcggcaatgg caagacagac 180  
agcacgaagg ctgtgcagga ggcattgggca tcggcggtgcg gcggcactgg gaagcagaca 240  
atcctcatat ccaagggcga cttccttggtc ggacaactca aacttacagg ccctttgaag 300  
ggcgacgtg 309

<210> 40223

<211> 182

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-E3

<400> 40223

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agccgatggc cgatgttcat gttcgtataa agtgaacgaa acactaccgg tgtcacggga 120  
cctgctgatg aacaagaagg ttacgctggt cacacactgg tcagtctatg aggctacctt 180  
gt 182

<210> 40224

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-E4

<400> 40224

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ggaggacgag gattccctct gtagcactgc actgcactgc actgcaagtt gttgtacaca 120  
agtgcattgt tatgttagt agtccggcct ccgggcggga ggcgccgacc ccattccgatg 180  
gcgacgggtg cgtccttttc ggatgctgag ctgcgccgac ctgagcctga gcgtctacgc 240  
cttcatgtga atgaaggaga gctgtggcca acgattagcc caccacacaa tggagaccgg 300

agaggtgacc aaccgtgtcc aatccgtgaa cggccggcac gggattgaag tgaacgggcg 360  
ggcgggcgaa aaagc 375

<210> 40225  
<211> 325  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-E5

<400> 40225

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ccgtctcgcc gcggcggaga agactttccg cggaggtgga ggcggaggct acggcggggt 120  
ggagggcgggt ggcggaggcg gcggcggcta ttccaccccg agcgaggcgg cgccatccac 180  
gcctgccgct ggggagacga ctaccccttc gtcaggcggc ggttactcca ctcttagcgt 240  
ggcggcgcca tccacgcctg ccgctgagga gacgacgacg actccttcgt caggcggcgg 300  
gggttacggc ggtgcaaccg gcaag 325

<210> 40226  
<211> 320  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-E9

<400> 40226

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gagctgtaca ttcccaattt acgtgactac gtgaagaggt attacccatt gggctctgtg 120  
tggcaaccgc caggaagcgc agccaacaag gcacctcag ctccgtctgt tcctcctcca 180  
tgtctttcca tctcttcagc ctctcgtcc caacaaaat ctggaatgtc agctgtcttt 240  
gctgaaatca gctctgggaa accagtgaca caaggcctca agaaggtaac tgatgacatg 300  
aagagcaaaa atagaacaga 320

<210> 40227  
<211> 446  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-046-Q1-K1-F1

<400> 40227

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tgtgttcctc gtcgtgctcc tcctggccgc catcgoggtg gcaccgttcg cggcgccgc 120  
acgcgtggac gtcgtggagg gtaggtccat ggcacccgcc gatgcaccgg aggcggcggc 180  
cgatgctccc gtcctagcc ccgactccgc ctcatcccca gactcatcgt cagaggcgcc 240  
cttcagcagc agctcctccg actagacgca aaaacctctt cattctctgg aataactaac 300  
agtatatacg ttgcaccctg atgatataga aacatgtacg tgcacagtg tatggaatgc 360  
gagtggcaaa cacatggaat gtgcttgccct aantattggt aaattcttaa ttaatatatg 420  
tctttttcgg tggtttttaa ttttcc 446

<210> 40228  
<211> 179  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-F10

<400> 40228

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gccccggtct ccacgcctcc acaaccatcc ttcccgatcc cgaccagctt tgaatatacct 120  
atggcgggacg gccgttggtg caccttcgtg gatacccttt tccaaaatac ccccccccc 179

<210> 40229  
<211> 293  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-F11

<400> 40229

gggagtgaac atggaacag ctcaattctt ctaacgtgat tttgaagaga atggttccgt 60  
ggggcggggtc accctttttc tgaatctggc taacgacccc accattgaac gtattatcac 120  
ccctcggatt gctctaaca cagcggaata tttggcatat gaatgtggga agcatgtact 180

cgttatcttg acagatatga gctcttatgc agatgcactt cgtgagggtt ctgcagcccg 240  
agaagaagcg ccatgtacgc gtggctatcc tggatatatg tatactgatt tgg 293

<210> 40230  
<211> 440  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-F12

<400> 40230

gatgtatttg tggttgctga acccgagat cttgcagaca gatttctgca atctgtcaga 60  
agtagtttgt caaccttggt gcgtgggct aatagaaagg gtgcatattc cttgtccaag 120  
atttcatggt tatctgagct ggttgctgag tgtccatctt ttgaaatcgg tgggatacac 180  
caccgctata taggtcgaca aacacaagta ggaattgctt tttctggctc cttgtttcca 240  
actaggtcat tattttgcat acttaattat cctttttctg taggtaatgg aagataacca 300  
agaaattggc gcatatatgt ttaggaggac agtgcctgct gttcacatgg cacctgaaga 360  
tgttcgatgg atggtaggtc aatttgcgca gcatgaatgc attggtcttc ataattatgt 420  
taaagccata actgatcaca 440

<210> 40231  
<211> 454  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-F2

<400> 40231

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atagcaagag caagtttctg ctgcagcact ctttaataaga atgcatcgtt gtctgatgg 120  
gatagctcgc acaataggcg ctgggacaca attcggctctg gtcattatgt ttcctctcat 180  
tcttcagata gcactatgct atcaagacca gccagtgcag tatcatccac tgatgtggca 240  
tctctgcata gaaaggaaag gagacaagct tgtcctcctg gatttgagaa gcctcatctg 300  
tactccggtt caggcaaagc ttgctctgga cattgctctg cacctgatgc cctggtacaa 360  
gattgtggta ttccagatca acaagacctt actagcttga ctacagattg cctgaaagat 420

gatggagatg tcacacaaaa tctaagcatg aaca

454

<210> 40232

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-F3

<400> 40232

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cggcactctt tgctgtcggc tcgtgtggcg gcgcgctcac cttcacgacg ggcaaggact 120  
ccagctccac caaactatcc ctctgtcacta acgttgccat ctccgaggtg tcggtcaagg 180  
agaagggcgc cctggactgg tcggatgac tcaaggagtc gccagccaaa accttcaccc 240  
tcgatagcaa ggagccgatt aagggcccca tctccgtccg cttcgctgtg aaaggtggtg 300  
gctaccgcgt cgctgatgac gtcacccctg ccgacttcaa gcctggctct gtttaccaga 360  
caggcgaaca aatctgagta atggattctg ctgcgtgcag attatattga tctctaaaat 420  
aaatgttgac agagactaat t 441

<210> 40233

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-F4

<400> 40233

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ggccagctcc agcaccagca cctattagct cgctgcccc acttatcaaa tctcctctc 120  
caccggttcc ggtagtctca ccaccaccac tactaaaatc gcctccacct ccagtatcta 180  
tgagtttacc acctccatct gtgaaatctc caccgccgtt gccaccaagg tcacctccag 240  
cgccagtga atcaccacct gctgcaccac cagtaagttc gccgccacca ccagtaccgg 300  
tgagggtcacc accaccgtca ccaccatcac cgattagttc accaccgcca tcgatgaaat 360  
ctccaccccc accagcacct attagctcgc ctaccccacc taccaaattc cct 413

<210> 40234

<211> 388  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-046-Q1-K1-E1  
  
 <400> 40234  
  
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 tgaacacgcg gggacgcagg cggcaggcta gcgcacaccc gcgccgtcgc gacgtgaccc 120  
 ggcgatgggg tgcgcaacct ccaccgaggc gcgccgcgac atggtgcgga ccggcgccgg 180  
 cgcccccccg cgccggagct tctcgtacc ctctgtcgac cgccagcggc tgcggctgaa 240  
 gaccgtgtcg atgctcggca acctcggcct cgccggcagc agcgcccgtc actccagctc 300  
 gtgcaggcac gcgacgtgt cgggtggagga tttgatgaag agcgacaacg accatgccgc 360  
 ggacgcggtg ctctcggcg acgacgcg 388

<210> 40235  
 <211> 388  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-046-Q1-K1-C3  
  
 <400> 40235  
  
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 tcatcacga ccgggagacg gggaggcttc gcggcttcgg ctctgttacc ttctcctccg 120  
 agaactccat gtcgacgt atcgagaaca tgaacggcaa ggagctcgac ggccgtaaca 180  
 tcaccgttaa ccaggcccag tcccgtggcg gtggcggtgg cgccggtggc tacggcggcg 240  
 gtgcggcgcg cgccggctat ggtggcgggc gccgtgacgg cggttatggc ggccggtggcg 300  
 gctacggcgg tcggcgcgag ggtggtggcg gcggctacgg aggcggtggc ggctacggcg 360  
 gtccggcgga ggggtggtgt ggcggcta 388

<210> 40236  
 <211> 348  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-046-Q1-K1-C4



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 agccatgtcg ccgtcggagc cgacgcggga ggagagcgtg tacatggcca agcttgcgga 180  
 gcaggcggag cggtagcagg agatggtcga gttcatggag cgcgtcgcgc gctacgccgg 240  
 ggggcgccgc ggcggtgagg agctctcggt ggaggagcgc aacctgctgt ccgtcgccta 300  
 caagaacgtc atcggcgccc gcaggcctcg tggcgatcat cttctcat 348

<210> 40237  
 <211> 321  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-C8

<400> 40237  
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 tcctggactt caagtacggc gccaacgact cgggtgctgt ggtggcgcac gacgactaca 180  
 agcagtgcag cacggagacg ccgctgggccc ggttcaccgg cggcgacacc aagttcgcgc 240  
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 agcggatgat cgtgcgggtc a 321

<210> 40238  
 <211> 373  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-C9

<400> 40238  
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 cctgcagagc gacgacgtct agctcgtcgc cgtgaacgac cccttcatca gcaccgatta 180  
 catgacctac atgttcaagt atgacactgt gcacggacag tggaagcacc atgaggtaa 240

ggtgaaggac tccaagaccc ttctctttgg tgagaaggaa gttgctgtgt ttggctgcag 300  
gaaccctgaa gagatcccat ggggttcccg tggcgctgaa tatgttggtg agtctactgg 360  
tgttttcact gac 373

<210> 40239  
<211> 460  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3075-046-Q1-K1-D1  
<400> 40239

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tacacatcta cagaaattcc tgtaacaggg tctcatgatg tgtttagggg gcatacattg 180  
gaaagagttt ttgtgaatct gctgctcgaa gtcgcagaag acgaaatata ttttcggaca 240  
gtagtcagag atttgaaaac caaaaggcca atgctgcaat tagttcttct tagctcanaa 300  
gcatggttat cttctggttg ctgctatgaa aatgatacca atgggttcaca tggaacatca 360  
gatctgcagg ctagtggttaa actctngtat tctgattata agaatgcttc agaagcagac 420  
ttaaggacag ttgaagagtg ggcatccaaa taccgggctg 460

<210> 40240  
<211> 267  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-046-Q1-K1-D11  
<400> 40240

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agccgcactg tccgcccctt gggctcctaca aagcgggcca gttctgcaac agcaaatgaa 120  
aatgacatgc tcagtaatgg ccaagggttt gttagtactg acaaagtaaa tagtcgtgga 180  
cattcaatgt gtctgcatac gcccatgttt cccaagatag aaagtggaat ggtggaagta 240  
gtagcgcccc ccaaaatagt atcaciaa 267

<210> 40241  
<211> 355  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-D12

<400> 40241

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gagagcggcg gagagcggcg aggcggcgga ggcaagaag atccaggacg acttctgctc 180  
gacgctgtgc gagggcaaga aggggacgga cctggctgtg tgcaaggagt cctgcgcgct 240  
ctcccagcag tccaacctgg tgctgtacgg caggatccag tgcaagggca agtgcaccga 300  
gcagaatggc atcacggcgc cggccatgaa ggtctgccaa gaggagtgcg acaag 355

<210> 40242  
<211> 296  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-D2

<400> 40242

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tgtttttatg atgttacatg ctaagaactc cgataagct ggaactgctg aaaacctaca 180  
tccggttgta ttgctgtaat attttatgga agcatcccag ggttggaag atgcatcatc 240  
accatcatgc tctatgagaa aagagttttg agtggtgcta atgagtttgg gctact 296

<210> 40243  
<211> 403  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-D3

<400> 40243

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cggcggcggc gagatccggt ctccggtcgc tggcgggtgcg cgccgccccg ttgaggcgcc 120

gcattgtcctc ctccgtccac gacgacgcct atgagacggc caagtgggag aagatcacct 180  
 acgccgggat cgtgacctgc accctcctgg cggcgtacaa cctgtccaag ggccaccccc 240  
 acttcgatga gccgtcggcg taccctatc ttcacatccg caacaaggag ttcccatggg 300  
 gccctgatgg gctggttgag acgaaggacc accactgagc cctgattagc acacctttca 360  
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<210> 40244

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-D4

<400> 40244

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 atatgattac atgtttcacc tcttaactga gtatgccaaag ctcttaaggt tcaagccaag 180  
 aaaaccacct gaagctattg aggtctgtcc tgaatctctg gcttgccaag ctataggccg 240  
 cgagaagaag ttcattggagg actccatggt gagatccgcc agcgatgctg ggccatgtga 300  
 cctggcttct tc 312

<210> 40245

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-D5

<400> 40245

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 ggcgtgaaga aggccgccag cgtcgtgac gacgctggga aggcctccgg caccgcgcc 120  
 tccactcccg cgcagggcgg cgctgctcag tgagattcgc gccgcccacc gcgtggtgtt 180  
 ctgttccctg aggatcggaa cccgccgtgt cgaacgaacg tgtggtcatc catcgttgcc 240  
 ccgtttgagc atatcaatcc ccgttgggtc gtgtttttcg ggtctgagt gatttttggc 300  
 ttttgatcaa aaaaaaaca aaagaccacc aaattaccct taatatcaaa ctttcaacaa 360

catttttcaaa caaaaaaaaaa agggcggcc

389

<210> 40246

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-D6

<400> 40246

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gagatgcaca gtgctgatag acaatgcctt gactcagctg atgttcctgc ttcaactcag 120  
cctctgtcag tttcacctgt tttgatgagt gatgagcagc atgtcgatga cgcccattct 180  
gctgtcaagg ccattgagca cctgggcaat aatctggcta acataaagca gaaatccctg 240  
catatggatg tcctcatgtt agaggacgcc aaagttgctt ccatggctgc agtccttggc 300  
atgagggaaa atctgtcgac gctggatcaa aatcttttga tatttacttg gagctctggc 360  
tg 362

<210> 40247

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-D7

<400> 40247

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tctcgcaggc ggacttcggt cgcctcgaga ttgagctggc cgaggtcgaa atgcccggcc 180  
tcatggcgtg ccgcgccgag ttcggcccgt ccaagccctt cgccggcgct aggatctcgg 240  
ggctctttca catgaccatc cagaccgtcg tcctcatcga gaccctcacc gcgctcggcg 300  
ccgaggtccg ctggtgctcc tgcaacatct tctccacgca ggaccacg 348

<210> 40248

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-D8

<400> 40248

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acacccttcg cacaccaatc attgtattta cacagacagg ctccatggct gtcctcctga 120  
gccactatcg tccctcgtct acactatttg catttacaaa cgaggaacga gtgaagcaac 180  
tgctagcact ctaccagggc gtcatcccta ttcacatgca gttctctgac gacgcagaag 240  
aaactttctc cagagcaatt agcagcttgc tgaaagcaca atatgtgaag aagggagact 300  
acgtcactct tgttcagagc ggagtgactt caatct 336

<210> 40249

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-D9

<400> 40249

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ctcaagccga gaagagtgcc tggccggggag agcgtacgat aatagatccg catgcatatt 120  
cttgtttggc ggagacggga gacatggagc ggatcttcta gcggttctac accaactgcg 180  
aacgtaagat ctcgctgctc ggagctgaca gaagcgctac tgactctggg gtccacctct 240  
gacgacgaag tgcagcgcac gatggcctaa atcgacaccg accgagactg ctgcatctac 300  
ttgaacgagt tcatgacctt ctgcaacgcc aacctgacg tgatgaaaga cgacgcacag 360  
gtcttctgat ccattacatc ttcgtccata cgattgaata gatgatgaac ctgcttatat 420  
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<210> 40250

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-A9

<400> 40250

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 gctgctgtcc ggcggcctcc tgccgcacgc gctgggtaag gcctggcgtg gcaggcgaca 180  
 cggaggcgcc ttcaacctgt aggtccacga catctgcttt cgcacgatgc cccctttgat 240  
 aggctcgctg acgaccggcc gtataacgag ctacctcgta ttctgatcac tgcataacga 300  
 tctctgata ttggcacacg gttcatcttg catcgactga tcttcacatt tccgaatatg 360  
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<210> 40251

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-B1

<400> 40251

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 tgctcgacgc tgtgcgaggg caagaagggg acggacctgg tcgtgtgcaa ggagtcctgc 180  
 gcgctctccc agcagtccaa cctggtgctg tacggcagga tccagtgcaa gggcaagtgc 240  
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<210> 40252

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-B10

<400> 40252

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 cagaggcaaa gaagaagaga gtcgccgccg ccgccgccga ggagaagaag gtgcaagaca 180  
 acttctgctc gacgctgtgc gaaggcagga aggggatgga cctggtggtg tgcaaggagt 240  
 cctgcgacct ctcacagcgc tccaacctgg tgctgtacgg gcggatccag tgcaagggca 300  
 agtgcaccga gcaaaaaggc atcaccgcgc cccaaatgaa agggtgccaa aaggcgtgcy 360

acaaggacta cacgggcaaa gcgggtgagg tgacca

396

<210> 40253

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-B11

<400> 40253

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tcaacgtata ggagttctta gtgctggtga tacaataagc aaacatccag cctttgatac 180  
aaactacaaa attttgtggg ccaatcatgg agatgcaata agcattcagt actctggaac 240  
tcctgctctg aagggagatt ttgttcggta cggaagcga actactcagg gaattctaaa 300  
cgatttgagg aatgcacttg ctagatacta cttgaataac ttcgttgatg ggactaagca 360  
ggatgccatg gatcttcttc aaggacataa catgacatct gttagtcgag acatggcagt 420  
gccaag 426

<210> 40254

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-B12

<400> 40254

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gacgtcgtgg agggtaggtc catggcatcc gccgatgcac cggaggcggc ggccgatgct 180  
cccgtccta gccccgactc cgctcattc ccagactcat cgtcagaggc gcccttcagc 240  
agcagcttct tcgactagac gcaaaaacct cttcattctc tgggaataact aacagtatat 300  
acgttgacc ctgatgatat ataaacatgt acgtgcatca atgtatggaa tgcgagtggc 360  
aaacacatgg aatgtgcttg cccaaatatt gcgtatttct ttatttatta tatgtctctc 420  
tcgcgggggt tttatttttc tta 443



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 <211> 469  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-046-Q1-K1-B2  
  
 <400> 40255

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 aatggcagtt tttaattgaa ctataaattt catgagttca ctgttgagtc ttcattccagg 180  
 acctcagtgg gcagcagcgc agcagaggtg gaggtccatc gggagaatgt ggagacagcg 240  
 acgacgagcc caaccgtgat ttcgccaaat tcggcccggtg gggcgggcgac ggaggacagc 300  
 cgcatgacat cggaacacta ccctgccgtc tagacaggat caagatcagc agtgggctta 360  
 tcatcgactc gatcgagttc tcgtacgctg gccctgacag ccagtaccgt accgcatgcc 420  
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<210> 40256  
 <211> 372  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-046-Q1-K1-B3  
  
 <400> 40256

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 gccgcggagg agcagcactc ggcgctcatc ctgctgccgt tccacaagca ccggtcgggtg 180  
 gacggagggc tggaggtgtt ccaccgggag atccaggcac tgaaccagag catccagcgc 240  
 ttctctccct gcaccgtggg catcctcgtc gaccgcggcc tgggcggcgt gccgggcgcc 300  
 gggtgccgcg tggcggcgct attcttcggc gggcgcgacg accgcgaggt ggcagcgcgtg 360  
 gcgatccgta tg 372

<210> 40257

<211> 313  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-046-Q1-K1-B5  
  
 <400> 40257  
  
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 cgacactgct ctagttcaag atcgggacg tgccgggtcca gagccaggag tcctgcgacc 180  
 tatgcctgga ggacaacctg ccgctgatcc gcacgatcca ctgcaagggc cagtgtcct 240  
 atcacaacg catcaccatt cccgtcatga acgtcctgca cgatgagccc gacacggcgt 300  
 acctggtgaa ggc 313

<210> 40258  
 <211> 468  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 cggcgccacc taaatgtccg tggaaagagt gctactttgc catctatcac tgagaaggat 180  
 tgggaagaca taaaatttgg tgtcgaaaac ggtgttgatt tctatgcagt ttcctttgtg 240  
 aaggatgcca aagttatcca tgaattaaaa gactacctta aaagtgctaa tgccgatata 300  
 catgtcattc caaaaattga aagtgcagat tcaataccaa acctgcagtc cattattgct 360  
 gcttcagatg gngcaatggt ggcgcggtgga gaccttggtg ctgaacttcc gattgaggat 420  
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<210> 40259  
 <211> 400  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-046-Q1-K1-B7

<400> 40259

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attcactgtg gacaaatata agcagatagg gttcttttct gaagaaaagg catttgctct 120  
gaggtatcag actgctggaa tgctggagac tgttcttcgg gttggcacgc ttggagaaga 180  
tgatactggt gaagaatctc ccaaaaacct gaagatacct tctcgcaagc catctattgc 240  
atgtgaaaat cgtctttact cccttgaagg caatggtcga atgagggtt tccacataat 300  
ggatccaaag ggagtgttg acacacttgt tatttttcat gagaagagga tccttctgaa 360  
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<210> 40260

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-B8

<400> 40260

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gacgaccttc gccgtcatct tatccgtcct cttctgtgcc gcggtggca ccgctcgtcga 180  
caacgacctc cccgactacg tcatccagg ccgctctac tgcgacacct gccgcgccgg 240  
gttcgtgacc aatgtcaccg agtacatcgc gggcgccaag gtgagggtgg agtgcaagca 300  
cttcggcacc ggcaagctcg agcgtccat cgacggtgtg accgacgga acggcacgta 360  
cacgatcgag ctcaaggaca gccacgagga ggacatctgc gaagtgggtc tgggtg 415

<210> 40261

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-C1

<400> 40261

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tgcacgtgc atggtgagaa ggaagagtca aagggcatcg atgcgaaagc gtccgggcct 120

ggtgggttct tcgacatcac caagttgggc gccttcggca atggcaagac agacagcacg 180  
 aaggctgtgc aggaggcatg ggcatcggcg tgcggcggca ctgggaagca gacaatcctc 240  
 ataccaagg gcgacttcct tgtcggacaa ctcaacttca caggcccttg caagggcgac 300  
 gtgaccatcc aagtggatgg caatc 325

<210> 40262  
 <211> 448  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-046-Q1-K1-C10  
 <400> 40262

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 ttctctcgcca gttcgcgac gccgctcccc ggcgctgctc cctcgcccc gaccggcgcg 180  
 cgcgcggtgt ctgccgccgt catcgccacc accaccacct gcgtattcgc cgacgcccc 240  
 cgggggatca agggggaaca agccgactcg ggcgcccaag ccgcggcggc tgcggctgcg 300  
 ccgaaggacc tcagcccga caccgtggcc ttcatcatcc ttgggggggg cgccgggacg 360  
 cgcttttttc cggtaagcg tacaagggcc aagcccgtgg tgcccgtcgg gggatgctac 420  
 aggtcattg acattccgat gagcaact 448

<210> 40263  
 <211> 432  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-046-Q1-K1-C11  
 <400> 40263

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 cttgatagct tgcttttttg cgccgtcct cagccatcct ctccatctcg gtgtcacaca 180  
 ctccgcatac gcacctacga gagtcgagtg acagcgagcg agcgagcgag cgaagccatg 240  
 gctctccgca ccttggcatc gaagaacgcc ctatccttcg cgctcggcgg cgcgggcccg 300

ccgtcggcgg cgtccgcgag gggggtgacg acggtcgcgc tccccgacct cttctacgac 360  
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 acgccaccta cg 432

<210> 40264  
 <211> 291  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 cgcgggcggc gcttcgattg ggcgtgcgcg cgtcgcgct cctcgtntct gtgtgagtgg 180  
 ctctgcttcc actcgtcagt tccgacgatg ggtacagaca ctgcgagggg gtcgtcaggg 240  
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<210> 40265  
 <211> 466  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-046-Q1-K1-A8  
 <400> 40265

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 catgtgcaca gtccattcat ttcacacaaa tattgaccat tgtctaacaat gggcccgcctc 180  
 agagtttgag ggtttgctcg agaagactcc aaaggaagtc aactcttttc tgtctaatacc 240  
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 gcacgtatgt gaatgccttg agaaggagtg ttgtggaaca tttgacgatt gcataacgtg 360  
 ggcaagactg aaatttgaag attacttctc caatcgtgtg aagcagctaa cattcacgtt 420  
 tctgaagat gctgccacta gcatgggagc ccatttctgg tgtgct 466

<210> 40266  
<211> 420  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-H1

<400> 40266

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ccccatcttc aaggacggca agggctgctg ctcacgtac gaggtgagat gcaagaaaa 180  
acctgagtgc tcgggcaatc cagtcacggg gtacatcact gacatgaact acgagcctat 240  
cgctccctac cacttcgact tgagcggcaa ggcttcggc tccctggcaa agcccgggct 300  
caacgacaag attcgccact gcgcatcat ggacgtcgag ttcagaaggg tgcatgcaa 360  
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<211> 431  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-H11

<400> 40267

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tgacaacaaa gccctggcaa cactgaataa taacaatgtt gctgcaagca atggcgaagc 180  
cacaagtga gcaaagaaag gagtgccaaa ggcccggtga cagtatatag acattattgg 240  
cagagacaaa gatttcggat tctttgccta tagctagaca agacaccccg ttagaaatat 300  
ttcgtaatga taatgattgt catcaagtgt acattcattc ttgcttgaca gtgttagacg 360  
tgtaattaat ataagcttgc cgattgtgta acaagtaacc catatggcat cttgtgtgtt 420  
acaacttaca c 431

<210> 40268  
<211> 342  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-H12

<400> 40268

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ggcagccatg cagaagcggc tcaagtccgt cgtgtcacgc tacgccggca aggtcatcca  180
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ggcgtccgca cagatctacc agcaggtggg gcagctggac cgcaatgcc a tcctattcat  300
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<210> 40269

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-H2

<400> 40269

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gtggagggca ggtccatggc gtccgccgac gcgcctgagg cggcggtga cgcgccgct  180
cccggccccg actccgcctc atccccggac tcgccgtcgg aggcgcctc cagcagcagc  240
tcatccgact agccgcgcac aacgcagttc ttgtcatgat ctatctagca aataaaaaga  300
tcatatgtct cgtttgattc tctggaataa ctaatagtat atatgctgcg ccgggatgat  360
atataaatat gtgcatcaaa tgcgtgcggc aaacgcagtg aatgtgcttg cctagctagc  420
taatt                                              425

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<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-H3

<400> 40270

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agagagcggg atcgagaaga aattgaagcc gctaataatt agccatcggtt ctctagagtt 180  
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<210> 40271  
<211> 371  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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gccatggagc tcttgggctt ccateectac tccaggccct ccccttcoga ggtgaaggct 180  
gcgtatagaa gaatggtgat ggagtcccat cctgatcgtg tcccaacgca tctgaaatcg 240  
caggctgagt caaaattcaa ggagatcgca gaagcatatt cttgttcgaa ggacggaaga 300  
agatcagggg gtangatgga agtcatgtat gcgttctggt gttcgactag cacgggagat 360  
caaatagacg t 371

<210> 40272  
<211> 238  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-H8

<400> 40272

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catggaatca ggcaaaactt cacatattga aagcttcaag gacaaaacga ttgcagatgg 180  
ggagtatctt ccatgagctc ctaaagtctg tgcagagcaa gcgtttaga ctggaaca 238



<210> 40273  
<211> 429  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-H9

<400> 40273

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atcttagatc ctctctgccc gcccgcccgt gcccgtcgac gcgtcgttct tgccggccgc 180  
gccccacctc cgtcctctcc tcctgcaggg ggatcggata cgccacaggc tgcgcgatgg 240  
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aaatcctcgg ctttatcaag ggctacaagc gcacctttaa tctcgcttgc attgaccaca 360  
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gctggggaa 429

<210> 40274  
<211> 144  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-A1

<400> 40274

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gagcgtcgaa gtgatccacc cgcc 144

<210> 40275  
<211> 186  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-A10

<400> 40275

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 ggctccttcga catcaccaag ttggg'gcgcct ccggcaatgg caagacagac agcacgaagg 180  
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<210> 40276  
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 <212> DNA  
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 <223> Clone ID: LIB3075-046-Q1-K1-A11  
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 tgccaccata tccgacgtgg agatcaaaga gcacgtggc gatgacttct cctttacgct 240  
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<210> 40277  
 <211> 299  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-046-Q1-K1-A12  
 <400> 40277

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 aacgtgcgca acggttttta agcgaagata attgcacgag cataaaactg gggtaataaa 120  
 taaatcacgc taccaaagaa gagtgtgat gcttgcaact aagtgtacat gattccataa 180  
 tgaacatcat aaacgtagcg atggcccttt ctattgtaat gatctcttaa aatttttagcc 240  
 cgacatacga atacctggat ctgttatctg ggctgacagt ttgaccaaa ttgaacgtg 299

<210> 40278  
<211> 124  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-A2

<400> 40278

tttacgcaat cgtgaacatg atcctggcga ttcaaggcga aacctgagct gatatgcgcc 60  
gcgcgacggc atccttcggc atcactggga caaaatctgg actgtcactc aagattggga 120  
tata 124

<210> 40279  
<211> 432  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-A3

<400> 40279

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agcggcgggg catcccgga gcggccttcg ttgaggacgt tgaggcctac ctccgccagg 120  
tcgggctcga cgtcaattcc gcgctcgctt ttctccagga aaggctgcag cagtacaaaa 180  
tagtggagat gaagcttcta gcacaacaaa gggatcttca ggcaaagatt cctgatatag 240  
agaagtgctt ggatattgtt acaacattac aagctaaaaa ggatttgggt gaggcactca 300  
tagctgattt cgaattgtcc gaggggatct actcccgctc aaaaattgag gatactgact 360  
cgggtgtgct gtggttgggt gcaaattgtga tgctggagta ctcttgcgat gaggccaatg 420  
ccctcttgaa ga 432

<210> 40280  
<211> 368  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-G6

<400> 40280

cagatcgagt ggctccctga ttcaattgga aagctcactg gacttgtcac ccttgacatt 60  
tcggagaatc ggatcttggc cttgccggaa gcaattggga tgctttcttc tttggccaag 120

cttgaccttc acgctaacag aattgctcag cttccccgagt cgattgggga tctttccaac 180  
ctgatataatc tcgaccttag gggcaatcag cttgcatcat tgccggccag tcttggtagg 240  
ctggtgaagc ttgaggagct tgatgtgagt gcaaaccatc ttacctcact ccccgactca 300  
ataagaagcc ttacacgcct gaagaacgtg atcggcgaaa caaacgacct tgatgagctg 360  
ccatacac 368

<210> 40281  
<211> 362  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-A5

<400> 40281

ccaacaccct ctccaccttc catcccgatc accgccgcca ccgctttcgt tccacgtccc 60  
gatggcaccg gtagatctaa cccccaggca gccccggaag gcgtatggcg gcgacgccgg 120  
cgctactac gagtggagcc cagccgacct gcccatgctc ggcgtcgcct ccacggcgcc 180  
agccaagctc tccctcgccg ccggtgggct ctcgctcccc agctactccg actcttccaa 240  
ggtcgcgtac gttcttgaag gcactggcac ctgcggcatc gtcttgccgg aggcgaccaa 300  
ggagaaagtg ctggccgtga aagagggcga cgccctcgcg gctccccctc ggcggtgtca 360  
cg 362

<210> 40282  
<211> 401  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-A6

<400> 40282

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tgctgcgcgt cgttgaacc aaggattgga ttagcctcgc cgaggaggag gtggtggctg 120  
gcgaggggct cgcggggatg gggatctcga ggccccttgt gatggcgatg gcggtggcgc 180  
tgctgatcgc cgtcgccggt gcgaccgccg aggagcagga gcccctgctg gcggcgagcg 240  
cggtggccgg cgcggtggag gcggcgctcg gggaggtgga gaccgcggcg ctcatggccg 300

agctggggca actccgggcg aagatctcgg cgctagagtc agacatagaa gagcgatctc 360  
aagaactgaa gaataaggat gatgccatca tgaacctgga g 401

<210> 40283  
<211> 248  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-A7

<400> 40283

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tattatgctt gccctcctag gggcggagtg aggaggcgtg cctcaactcg atctcatctg 120  
ctgctacttg tttgatgggg ccaaaaatct gcatcgatgt ggtatccaca tggccgtgtt 180  
tttgaataat aatattgtaa cacgtagcct gcattagcag cgcgtattaa ataaaggaac 240  
ttcctgat 248

<210> 40284  
<211> 380  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-F10

<400> 40284

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gggtgtttcc atggcgcttg tgtggaagat ttgcgttttag attttactct tccaggttat 120  
cctgattatg tgcttaaaga ggggtgaagga ggcacacttg ttaatattta taatttagaa 180  
cagtatatta cttcgggtgtt ggatgctaca gttaagtcag ggataaagcg acaggttgag 240  
gcatttagat cagggtttaa tcagggtgttt gacatgtcat ccctgcacat attgtcacct 300  
caagaacttg actatctaata atgtggccga caagaaattt gggagtcgga aatcctggtg 360  
gataacataa aatttgatca 380

<210> 40285  
<211> 400  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-F11

<400> 40285

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cgtggaaggg cgaggaggag gatgtccccg tcgccgcgca cgacagggag tacggtcgga 120  
tggcgcacat cgccttcgga ttcacacacc acgccgacgt cgcgcagccc gccgcatgaa 180  
tcgattaatt attatatata tatatgcatg ctatctacta tgatcgatcg cttctcgacc 240  
ttcttgcata gatctgcatg catattataa tgtatattat attgatgcca cgccgcatgc 300  
aggctcttcc aaggcgtagc tactatatca aattatttta atttccttac atgtatatgt 360  
atgtgctgct gttggatacg tacgtatata tatatcgtct 400

<210> 40286

<211> 62

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-F12

<400> 40286

gatacacgaa cgcggcacct tgaatccatt tgttggggcg accagctaca agttacatat 60  
gg 62

<210> 40287

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-F3

<400> 40287

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atcaaccttg cctaccgcga cgcaagaggc agcgatccgt atgtcgtcct acgacttggc 120  
aagaagaaac ttaagacgag cgtgaagaag agatctgtga accccatctg gcacgaggag 180  
ctaactctga ccgtcacaga tcccagccta gctctgaagc tggaggtggt cgacaaggac 240  
acgttcagca gggacgacc gatgggggac gcggagatcg acgtggcgcc gctgggtggag 300  
gcggcgaacg cgagcccgga ggcgagcc 328

<210> 40288  
 <211> 187  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-045-Q1-K1-F4  
  
 <400> 40288  
  
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 agaggcaaca gtcatagcgg gaacgcgaac cctgtacctc cttggcgcgga ctgtcgcggc 120  
 gctcttaacc acacctgctg acgtggacgc tggcacgctg gaggagatct gaaggggaac 180  
 ctccttc 187

<210> 40289  
 <211> 398  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-045-Q1-K1-F5  
  
 <400> 40289  
  
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 agccacacac tgagacctca cgcgcggatg gccgccgccg cgggcgggac cggcggtgc 120  
 ggctgccaca ttgtagcggg gccgttcccg ggccgcggcc atgtcaacgc catgatgaac 180  
 ctgagccgcc tcctcgcagc cgggggcgcg gcggtcacct tcgtcgtcac cgaggagtgg 240  
 ctcggactca tccgtcctc ctcgcgccg gccgtgccg agccggcccg cattcgcac 300  
 cgcaccatcc ccaacgtcat cccttcgag cacgggcgcg ccgccaacca ctcaggcttc 360  
 ctcgacgccg tcgccacaga gatggaggcg cccttcga 398

<210> 40290  
 <211> 416  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-045-Q1-K1-F6  
  
 <400> 40290

caaaaacctt cgggatatat ttgctatctt gggatatggat gagctcagtg aggatgacaa 60  
 ggtgacggtc gctcgtgcaa gaaagattca gcgtttcctg agccagcctt tccatgtcgc 120  
 tgaagttttc acaggtgctc cagggaaagta tgtggagctg aaggaaagtg tgaagagttt 180  
 ccagggtggt ttggatggca cgtatgatga cctccctgag cagtcattct acatgggttg 240  
 aggcattgag gaagtcattg ctaaggccga gaaaatcgcc aaggagtctg cttcataagg 300  
 cggtctcttg cttgttgaat cctgtacaat caagttccat ttttgattt aagcgattgt 360  
 ttatgctttt cgcagttagg cagcacgagt tggaggcca tctcctgctg agatgc 416

<210> 40291  
 <211> 402  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-F7

<400> 40291

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 accccacatc gaggtgacct tggaggtgga cgccaacggt atcctgaacg tgaaggcgga 120  
 ggacaagggc acgggcaagt cggagaagat cacgatcacg aacgagaagg ggcggctgag 180  
 ccaggaggag atcgaccgca tgggtgcggga ggcggaagag ttcgcgaggagg aggacaagaa 240  
 ggtgaaggag cggatcgacg cccgcaacca gctggagacg tacgtgtaca acatgaagaa 300  
 cacggtgggc gacaaggaca agctcgcgga caagctggaa gcggaagata aggagaagg 360  
 ggaggaggcc ctcaaggaag cgctcgagtg ggtggacgac aa 402

<210> 40292  
 <211> 425  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-F8

<400> 40292

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 ggcgcccaga tggcctgctc ccgctcgtc gccgcgcgg ggtctcctc cccgcgcga 120  
 gcggcggctc gttccccggc gcattctccc gctgccgct tcgcgcgct ccggtcgacg 180



cctcgttttcg cgagcgctgg cttgtcgggtt aagggaaacg gagcggcggtt cccgttggtc 240  
gccgccgagg ggccggccgc ggcggcaccg gtggccgacc tggacggccg cccggccacg 300  
gagaagcagc ccatcatcgt catcgacaac tacgacagct tcacatacaa cctctgccag 360  
tatatggggg agcttggatt gaacttcgaa gtataccgca atgatgaact gaccatagaa 420  
gatgt 425

<210> 40293  
<211> 428  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-G1

<400> 40293

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ctgccgccgc cgtccccgct tagcactcgt ggtgcgctcc cggacacctc gacggtggtg 120  
tggatcgtgt cccggggggag aatcggacgc ggggagccac gttgtggggg gggattgctc 180  
gccgccgagt catccctgcc gtggagccac gcatcacgtc gtcgggggttc tctacgccat 240  
tatcattgca gtgaggtcac gaggatttga agaatcatcc tggtagctag aatctaaagt 300  
gccaggagaa gaagatgtgg ttcaagagga gccacacaac gaggagttcg attcgatcta 360  
tgtggcgctc cccagttgac tttatggcgc caaggatgga ctttagttcg atctatattt 420  
atcttttta 428

<210> 40294  
<211> 368  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-045-Q1-K1-G11

<400> 40294

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aagatgccat gcttagctcg ctgtggaaaa ttaatgtggt cgatattgag tcaacacttt 120  
cacgtgtctg ccaagcagtt ctgagagata acacggtctc caaagatgtc ctgaagctgc 180  
gagcgaaagc gttgaaaaag ctcggaacga tattccaagg cgcaaaatct atgtaccgtc 240

gtgaaacagc ctgcgcgttg aaacgagcca natcagcagc tactcgccac tgagccatga 300  
 caccggtaca gggatcgatt gtgatttttg cgggttggct tgtaattgtt gctgtacata 360  
 catcgaaa 368

<210> 40295  
 <211> 241  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-G12

<400> 40295

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 aaggatgcc aagcagagcgc gggggggaaa ataaaagcgg ccgacaacga ggcaacaccg 120  
 agacgaggct ggcaagcagc aaagagagac aacacggcgc gcaaagagga gcagaagctg 180  
 cgagcaaaaa agtgggaagaa gcacgaaacg aaaatccaag gcgcaaaaaa aacgaaccgg 240  
 a 241

<210> 40296  
 <211> 400  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-G2

<400> 40296

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 ccgaggaggc cgccgctgct gcagcaggag gagcagaggg cggcagcgca agccccgggca 180  
 ccggcctcga agggccgatg ctgaggctgg ggctggacgg cggcggggag ggggaggacg 240  
 gggagctggg ggctggggag gaggcggaca cgtggcttcc agagcggcct ggcgaggcgg 300  
 actgtggcta ctacctccgc acgggcgcct gcggcttcgg ggagcgtgac cgctacaacc 360  
 acccccgcga tcgtggcggc actgagggtga gcgcgtctcg 400

<210> 40297  
 <211> 332

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-045-Q1-K1-G3  
  
 <400> 40297  
  
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 gctcctggcg acaagaaaac atgcgaagtg ttgtgcacca agtcacaaa aaagcctatc 120  
 gaagaaagcg aacatgattg atgaagtaga actccgataa tatatacact agtggatcag 180  
 tgggtcatctt tgtagccatg tctaccacac gaaggccttg attatattgn cttattgctt 240  
 tgggttttggc ttccaatagt atcctaattc cttgttcacg taacctaatg tcactcaaag 300  
 cattttatat gcctcactta attaaataaa ta 332

<210> 40298  
 <211> 272  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-045-Q1-K1-G4  
  
 <400> 40298  
  
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 acgggaggcg gcaagatcga ggggggggtcc agaaaaaccc tcaaatgcgg atgacataag 120  
 aggtgctcgc atcgaggagt gcaccaaaga aaataaggct cctggcgaca agaagacatg 180  
 cgaagtgtcg tgcaccaagc tcacaaaaaa gcctagcgaa gaaggcaaac atgaatgatg 240  
 aagcagaact ccgataatat atacactagt gg 272

<210> 40299  
 <211> 377  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-045-Q1-K1-G5  
  
 <400> 40299  
  
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tctctgttccg gcgggggtgg aagccgacca cgggtgggctg cgaggtctgc gagatgcgca 180  
acctcttctg ctgcgccaaag ctcgctgtca ggagcgcgct ggccaggcgc gagagccgcg 240  
gcctgcactt caccgaggac ttcccgtaac tggaagagag caggaggaag cctacgggtca 300  
tctttccggc cgccgtgcat gagctcacgt ggagcttcaa gccgttgcaa aggcagctgc 360  
aagcagatga caatgca 377

<210> 40300  
<211> 414  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-045-Q1-K1-F1

<400> 40300

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cgggtggggga ctggtactac gatagggagg tcctcggca gattgattgc cegtatccct 180  
gcaacccaac ttgcaagaac cgtgatgatg attgagcaat tgtataagta gttcatgtta 240  
tcgaaatgaa aacaataaag gatcacaacg cgcgccgta gttgtagatg atgaattata 300  
aacacatatg actgagctca aagttgttta atcatcatct gttgcgaaat gaggaagaca 360  
attggtgtct tgaagctgtg ttttcgactg tgtctaaagc gtaaattgtaa cgta 414

<210> 40301  
<211> 419  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-D1

<400> 40301

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cgagttcaga ttcaagaagc aggctacggg agcagttaca attcaggctc gctacagggtg 120  
ctatagggct cataagtacc acaagaagct gaaatgcgca gccattgttg cacagtgcac 180  
atggagagga aggatcgca ggaaagagct caagaaactc aagatggaag caagagaaac 240  
gggtgcgctc aaggaagcga aggacaaact cgaaaagaaa gtggaagagc tcacatggcg 300

cgtgcagtta gagaaacgac taaggacaga cctggaagaa gcaaaagctc aagagggtgtc 360  
 gaaactgcag aactctatgg aagcattaca ggctaaactg gacgagacaa acacaaagc 419

<210> 40302  
 <211> 279  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-D10

<400> 40302

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 gggcgccaca aacgggttcg gggcggctcc cgtctaggac tgcgtaaacg tggaccgcat 120  
 ccactggcac tacggcagcc ggttccacgc cccggagctc accgcaggct actacaacac 180  
 gctgtgccac taccgggtacc tcaccatcga gcgccttctg gcgcgccagg gcgcctgagc 240  
 taacttcacc tgcatagaga tgcaggacca cgagctgcc 279

<210> 40303  
 <211> 334  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-045-Q1-K1-D12

<400> 40303

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 gccgacctac tcgctggcc gcagccccag ggccccgcc cagcaacgcc gtcgccgccg 180  
 cgccggcccc gtcagccgtc ggaggctatc angaagggtg tggtcggggg tcaggtcacc 240  
 gaggaggagg ccgacagcct caccaagagg aagccgtgct ccgcgcccat gtggaaggag 300  
 atgactggga gcggcathtt cgcttgccgg gaggc 334

<210> 40304  
 <211> 275  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-D3

<400> 40304

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cagcccggac gacaattggg gcggatgtga gtacaaagac gtgaacaaag gcccttttaa 120  
caacatgggc gcatgtagga accgccccat cttcaaggat ggtctagggt gtggatcctg 180  
attcgagatc aagtgtaca agccagccaa gtgctctggc aatcccctag tgggtgtacat 240  
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<210> 40305

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-D4

<400> 40305

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accaggatta ctatcttcga tctgaaactc tgataagcag aattgaagac aaacgatcgg 180  
gtacttgggg aatatggaat ttatttactg ttggtttacc tagtacttgc ctaccagcca 240  
ggcgccccag gggacgacgg caaagataca gtctcgggta ttaggatggc aaaggcagcg 300  
atagataaat tctactccaa gtatatgttg ggatcacgta agctgggtgct tgaccacat 360  
tcaacgatct ttggcaaaag gatgcttgtc aaaagtgcga tcatgtgcta ttccaataac 420  
acaagataga tcag 434

<210> 40306

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-D5

<400> 40306

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agttcgaac cgtagggcga cccagacga acgtggcctt aatcggcgac ggcgccgatt 120

agaccatcat cacggggaac atgaacttca agatgaacct gaccaccaag gacaccgtca 180  
ccattctggc gatcgggttac tgcttggtta tgcaggacat gcctatggag aacacggcgg 240  
aggccgagaa ccaccagatc ctggctctgc ttttaciaag cg 282

<210> 40307  
<211> 109  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-045-Q1-K1-D7  
<400> 40307

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gctcccaaga ataaaaacat ggggggtaac accaaaagta ctttggata 109

<210> 40308  
<211> 418  
<212> DNA  
<213> Zea mays  
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ggctcgtgct ggaggccggc cgggcgggca ccgccatgga ctgcaaggcc ggggtgtgacg 120  
aggtcacggg cccactccac atgagcatgg aggactgcat gaagagggtgc aaggagatcg 180  
ctgctaagca ggggcctagg gacccttaca aggataacaa acttgacatc ccatgaacta 240  
attaatgctc ctatatcatc tgcctatcca tgcattgatt gcattgcgta tgcacactgt 300  
gcgtgcctgc ccacaaagtt cgacaacaca ccgatctcga cggatttgta atcgtgtcca 360  
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<210> 40309  
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<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 40309

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 tttataactt ttaaatacca acccctaact tcttttctt gccctttttt tttcttcttt 180  
 tggcct 186

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 <211> 431  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 ccggaggacg gctgcatttc cttatctacc acaagtatct cagaatcctg aacgaggcgt 180  
 tctgctctgc gaagcgtgtg ctaggggggc acagagcccc tgccctccag ctctccgacg 240  
 acgaagtgat ccttgacatc cacggcgtg cgacgaccaa gccagttctc cagcacatcg 300  
 gcacatccac atggcctgng aggctcacgc tgacgaacca cgcgctctac ttcgaggcta 360  
 tcggcgtcga tttctcgat ggagaggccg tcgtgtatga tctggcaagg gacttgaaac 420  
 agtcggtgaa a 431

<210> 40311  
 <211> 356  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-E11

<400> 40311

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 gccgaagcac tggtgagtc accgtatata ggcagtactg ccaagtaacc ggccgagtc 180  
 cctaaggcag gcagtgtgc tgctcctgcc aaggcaccg agtctgtgc cagcagaact 240



gccccctgata aggcacctca agccggctcc acgcccctgcg atgccgctgc ctaatcgtaa 300  
tcgacgagta ggaagtttgg accagttgcc gagccgacca ccggcgctcta tacacc 356

<210> 40312  
<211> 379  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3075-045-Q1-K1-E12  
  
<400> 40312

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ggcgccggct ccgtctccga ccagcggctc ctcccgggtc gcacccgcca tcgtcggggc 120  
cgccgtggcc tctttcttcg cgtactacat tcaactgagcc gncggacgag gagcccgag 180  
ccggaaggaa gagaccaagg tggggggaga gacttggtg ggctgcgctg ttctgctgct 240  
cccgcgcatt ccgatgcgt gggcgtgctc tgattgggca cgggcgtggc agtggcacac 300  
cttcgctcnc cttttggttg ttttttttac ctctcttctc tacttgattt tcaattaacg 360  
aattggtatc gctgatgca 379

<210> 40313  
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<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3075-045-Q1-K1-E3  
  
<400> 40313

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cgcacaggtc ccgcggcttt cgcttcgtca ctttctccac ggaggaggcg atgcggaacg 120  
ccatcgaggg catgaacagc aaggagctgg acgggcggaa catcaccgtc aacgaggccc 180  
aatcccgctg ctgccgtgga ggccgcagct gtggcgggta cagtgggt 227

<210> 40314  
<211> 334  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3075-045-Q1-K1-E4

<400> 40314

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acacgccata gtctcgtca acttccccct ttgaatgcc attgttgtca aatatggtgc 180  
ctactccatc accaacgacc tcattacagc gtagttccaa gttggaacca cttataaaac 240  
aaaactcatc atggaagtag cttctgatga agaaccatgt tttacaagac ctcatgtggc 300  
gcacgatata gcatgacact attttttttt ggca 334

<210> 40315

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-E5

<400> 40315

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tgtattcgtc ctccagcaga aggatcactc caaattcaaa agaaaggggtg aagatctctt 180  
ctatgagcac accttgtctc tgaccgaagc actttgtggg ttccaatttg ttcttacaca 240  
tctggacaac aggcaacttc tcatcaaadc agaccctggt gaagttgtta aacctgacca 300  
attcaaggcg attaacgatg aggggatg 328

<210> 40316

<211> 97

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-E6

<400> 40316

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cagcgggctg atgggctggt cgacacaccg gaacgtc 97

<210> 40317

<211> 414

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-045-Q1-K1-E7  
  
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 cgaccgaacc cccctacccc ctggaatcat cctccgatgc ggcgccgata ggggctggcg 180  
 gatgagcgga atggcggggc acggcgagaa gcggcgccat acgggaaggg cccacaaaaa 240  
 gcccgacgaa gaggatgaag accgcatttc ggatctgccg gacgtactgc gcctgcacat 300  
 tctgagactg ctgtcgctca aatcggtcac gcagaccggt gcgctcttct cgcggtggcg 360  
 ccgcatctgg gcgtaccgat ggccggagcc ctactcggtg accattcgcc ttcc 414

<210> 40318  
 <211> 418  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-045-Q1-K1-E8  
  
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 ggctcggctg cgcgctgtgt ccgcgcgccg atgccaccgc gttcgaggtc ggccggcgacg 120  
 acgggtgggt cgtgccgccg gccagcgacg gcggcaggta caaccagtgg gcatccaaga 180  
 accgttcct cgtcggcgac gtcgtccact tcaagtacag cgaggactcg gtgctggtgg 240  
 tgacggaggc cgactacgac agctgccgcg cgtcgcaccc cgtcttcttc tccaacaacg 300  
 gagacacgga ggtgacgctg gaccgcccgg gcccgtcta cttcatcaag ggcgagaccg 360  
 gccactgcga gcgcggccag cggatggctg tcagggtcgc cggccagggc gcaccccc 418

<210> 40319  
 <211> 302  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-045-Q1-K1-E9  
  
 <400> 40319

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 gacttcgaga agctgcagcg cgtcacgctc gacctcatca ccgaggcgtc cggcaccatg 120  
 tccgcaggca tcgccctgcc accctccaac gccggagcgc cctcctacgg cgcggcggcg 180  
 ccttcggggg gctccgccga tgccccgcc ggcgcctccg agggccctgc gagcgccagc 240  
 ggcccgctctg gtgacgacgc gccggcgctcc ggtgctggtg ccagcgcgtc ggctgctgat 300  
 gc 302

<210> 40320  
 <211> 364  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-C9

<400> 40320

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 cactgtccat gccatcactg ctaccagaa gactgttgat gggccctcgt ctaaggactg 180  
 gaggggtgga agggctgcta gtttcaacat cattcccagc agcactggag ctgctaaggc 240  
 tgttggcaaa gtgcttcctg tccttaacgg aaagttgact ggaatgtctt tccgtgtccc 300  
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 tgag 364

<210> 40321  
 <211> 330  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-B1

<400> 40321

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 cttgagcggc aaggccttcg gctccctggc aaagcccgga ctcaacgaca agcttcgcca 180  
 ctgcggcatc atggacgtcg agttcagaag ggtgcggtgc aagtaccccg ctgggcagaa 240

gatcgtgttc cacatcgaga agggctgcaa ccccaactac ctggccgtgc tggatgaagt 300  
tgtggcggac gatggcgaca tcgtgctgat 330

<210> 40322  
<211> 317  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-B11

<400> 40322

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ggccttgatt gcattcatgc caaccaaccc tgggtggggca ttggggtcat tggattacaa 120  
aaaggaagat agacgggcac ttggtataaa atcacgtgaa gcaccgcaa aatttgggtc 180  
cccagaacga caaaaactaa ttgatgagat ccatgagcaa atgctcagta aggtccttc 240  
tgtcccccaa acgtaccaa atgtgccaaa cgaggagtct aacgaattac ccgcatctga 300  
cccttctggc gagcatg 317

<210> 40323  
<211> 405  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-B12

<400> 40323

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ctcgggctcg tggaccgctg gccgcgcctc gtctgcgcgc aggcggccaa cgcgaacccg 180  
ctctacggct actacaagac aggttgacc gagttccagc cgcaggtggc caggccgacg 240  
ttcgcgtcag cgatccagat cggcgacccg gtgtccgtcg accgggccgt ggtcgcgctc 300  
aaggcgacgg acggcattgt cgaggaagcg acggaggaag agctcatgaa cgcgatgtcg 360  
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<210> 40324  
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<212> DNA  
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 <223> unsure at all n locations  
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 tatgggggta ccacttgcc ttcagggggg gcctgcc 97

<210> 40325  
 <211> 269  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-045-Q1-K1-B3  
  
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 gagaaccac atttccattg gatgatggaa aagatttgca gcgtaatgct agtcatgagt 180  
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 tgctcccttt accagtaccc aaatcacct 269

<210> 40326  
 <211> 432  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-045-Q1-K1-B4  
  
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 cgcggtgtac ggcgtgccc tcgcgacgc gctccgccc cgcggggg taacgagggg 180  
 gtctctgccc ttcgagctcc ccottggaaa gtacggcctc gacggagaga aggcgtgocg 240  
 cgagctcttg agcttttccg attccagtgg ctctccacag gtgaccattt ttgttctgcc 300  
 agactataag ccacctcttg cagcgtgtgt tgtaaagggt gtcttggaac tgatttcttc 360

tgaagctacc tccactgagc gaactctaatt tgtcccatac atcacaagat cgtcaagcta 420  
tcattcatgga ac 432

<210> 40327  
<211> 420  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-B6

<400> 40327

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aaaataaata aagaggagtgc gaaggaattt gcgttacgcc accctaacct gttaaagaat 120  
atgacactgc cttatctgag ggacatcaca accgtcttcc ctagtttctgt cttcaacacg 180  
gcggtggaag attagtcgct ccaattgaag gcaataaagc agtactgggg attgcttgag 240  
gtgcacaagg ttctgaaac ctgacggctg ttggtcgcct tcaaccactg agaattccgat 300  
gtgttctgag catcaaggca gcgcacacct gaccatcact cctgctataa attataatat 360  
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<210> 40328  
<211> 276  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-B7

<400> 40328

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catggaccac atcatcgctc tcgccgacat catccgcttc aagacctgct tctgatcta 180  
gctgcatatg atgctatacg ggacgccatg cgcttgggcg ttcacctgtg gactcatcga 240  
caccatcatc gacagcaaga tcggattcca catcgg 276

<210> 40329  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-B8

<400> 40329

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ggcgctctca gacaagcaaa ccgggtcaga cctgctgcct gttgagatgg ctgtgctgca 120

agatggagaa ttcacctggt tcaactgataa agcagcgggtg tccttgcttg agaacaagta 180

gagtccecatg gtaaccttgg ctccaagcca ttttatctca taaaataaaa gatccagggg 240

cctg 244

<210> 40330

<211> 159

<212> DNA

<213> Zea mays

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<400> 40330

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agatcagaac attcacttca tcgctgattt caaccactt 159

<210> 40331

<211> 421

<212> DNA

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<223> Clone ID: LIB3075-045-Q1-K1-C1

<400> 40331

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ctggggaaac tgagatcatg cctatgggtg caacgagttg aatcatatag aagaagtgca 180

agggctatga cctatgggag cttgcttgcc ttttgattca tcaaaaagaa gattgcggcc 240

agataccgcc tttggtggca acttatggga agctgtgaag aagaaactgc tgggcctctc 300

ttgcttttctg cagctttgct ttgatgtacc tgcgagggcc atggcccatg acagtggtag 360

gtttttcttt aatcgcaact gtaagggttg gtgaagaacg gttttacagt gcactgatat 420



a

421

&lt;210&gt; 40332

&lt;211&gt; 416

&lt;212&gt; DNA

&lt;213&gt; Zea mays

&lt;223&gt; Clone ID: LIB3075-045-Q1-K1-C10

&lt;400&gt; 40332

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gtgtcagctt gctcagcaaa gtcggggttg ggaggctggg tgccaaaact gaggatgagt 180

atgtgagcat agcgttggat ttggcatcag atgtgaatgc cttgcaagaa ctgaggatga 240

ccctgaggga gctgatgatg aagtcgcccc tctgcgaggg agagagattc acccgggggc 300

tggaagctgc ataatggac atgtggcgca cgtattgtga cggagacgta ccatctctca 360

agcgcttagc actgttagag gaacatcctg ttgccaatga gccagactcg gacaaa 416

&lt;210&gt; 40333

&lt;211&gt; 432

&lt;212&gt; DNA

&lt;213&gt; Zea mays

&lt;223&gt; Clone ID: LIB3075-045-Q1-K1-C11

&lt;400&gt; 40333

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agccattgat aatggtcaaa actgtcttgc atgaacttgt gaagcttcgg tgaacggcaa 180

taaagggtca ctttcaatg gttcctataa atgctgaacg ctcagcaata attctagcat 240

acattgatct caatctcaa acccttgacg ccgctagaat gttgacgcca tcggggccta 300

tgggtcaaac tcaactgggt gatgctgcat cgaacaatcc aaatccatct actcaactcag 360

ctgacgcgca attgaagcaa gagcttgctg ccattttcaa gaaaattggt gacaagcaaa 420

catgtaccat tg 432

&lt;210&gt; 40334

<211> 394  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3075-045-Q1-K1-C12  
  
 <400> 40334  
  
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 cgacgtggag gccctcaagt cgaacctgat gggcctgttc gagaagcggc tcgcccagaa 180  
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 cctcaacatg gtcaccacca gggaagtcac ctccaaatac agattggaag atgatacggc 300  
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<210> 40335  
 <211> 400  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-045-Q1-K1-C2  
  
 <400> 40335  
  
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 gtatagaaca cttttggcca attgtgtttc tgcattcaat ataaaaaaat cggagcacgt 180  
 ttttaatatg atgaaggatc ttggatttcc ggttacacaa ttttctttca atcagcttct 240  
 gttactctac aaaaggctgg acaggaagaa gattgctgat gttcttgcaa tgatggaaaa 300  
 ggaggatgtg aaaccatctc tctttactta caagattctt gtagatgcca aagggttcagg 360  
 tggagatata gaagctatgg agaaagtgat tgaatcaatg 400

<210> 40336  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-045-Q1-K1-C5

<400> 40336

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aggagttcct gcaggtgcc ttcggctacg ccggcctcag ctggaaggat cacgtgggtca 180

ttgacaagaa gtacttccgg cctgcagaag tcgacagcct caagggggac gccaccaagg 240

cgaggaaggt gctcaagtgg aagcccaagg ttgggttcca ggagctcgtg gagatgatgg 300

tcgatcacga cattgagctc gccagaagg agaaggtcct ggtggatgct gggtagcgtg 360

atcccaagca acagccatag aaacatcaca gttgcttctt gctctgntgg ggctcggatt 420

c 421

<210> 40337

<211> 242

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-C6

<400> 40337

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gagatggggg gagccacacc gtcccatct acgagggata cgccctcccc cagccatcc 180

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ct 242

<210> 40338

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-C8

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gcgtcgcggg cctggccgcg cgggcggcgt ctgcaggcgg gggagccgcg gcgggtggcgg 120

agatctgcat gaagactccg tccccgacc tgtgcaccaa gacggggggg aagcacgcca 180

acaagtacaa ggggggtggac gcggggacgg tgctagagat gcaggtggac gcgttcaaga 240  
 aacgcgtgaa ggcggcgagg aggcttgcca aggaagaggt caagacggcc gcgacgccc 300  
 aggcggggag ggcgctgaac ctctgaagaa ctactacctg gacg 344

<210> 40339

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-A8

<400> 40339

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 gagcgtatcc agcggaagct ggaggaggcc aacgctaccg tccaacagca cctcgccggc 120  
 atccaggacc acgtcaactt caccatgcag caagcatact tcaagtgcgc atatgattgc 180  
 ttcgatcggc gccgtactca cgaagcgatc aacaattgtg tggagaattg tggatgcct 240  
 gtccttgctg tcaacaatgt ttttgagagt gagatggcca agtttcagga acggttgaac 300  
 cggtcattga tgggtctgtca agataagctt gaagctgcca agtccaaaa gatgaaaaca 360  
 gatgcaac 368

<210> 40340

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-G9

<400> 40340

ggcggccacc gccccacagg tagcggaggc aaagaagaag agagcggcgg atagcggcga 60  
 ggcggcggag gcgaagaaga tccaggacga cttctgctcg acgctgtgcg agggcaagaa 120  
 ggggacggac ctggtcgtgt gcaaggagtc ctgcgcgctc ttccagcagt ccaacctggt 180  
 gctgtacggc aggatccagt gcaagggcaa gtgcaccgag cagaagggca 230

<210> 40341

<211> 308

<212> DNA

<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-044-Q1-K1-H10

<400> 40341

caagaatttg ggtcccttgg ttaagacagt gatgactcgt tgcattccaat gtacaagggtg 60  
tgtgagggtt gctactgagg ttgctggagt tcaagacctt ggtatggttag gtcgtggcag 120  
tggatgaagaa attggaacat atgttgagaa acttatgaca agtgagctat ctggaaatgt 180  
cattgatatc tgccctgttg gtgctcttac atccaagcca tttgcattta aagctcggaa 240  
ctgggaactt aagggcacag agactattga tgttactgat gcagtngat ccaacataaa 300  
aattgaca 308

<210> 40342  
<211> 312  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-H11

<400> 40342

ctccacatc taactcccc cgactcacga gttccagaga gctccatgg cgacgcaccg 60  
tcgctgcctc ccaactcctc tcggggccgc cgacctcgcc ctgcgcgcg tccctgctcg 120  
cgcggcgctg ggcggcgggc gcggcccgt gctgggcggg tggaaaccga tccctgacgt 180  
gagcgactcg cacattcagg agctaggcgg gtgggcgctg gggcaggcga agcaccagaa 240  
gctggccgcc gacgggctgc ggtttcgccg cgtggtgcgc ggcgagcaac aagtcgtgtc 300  
cgggatgaac ta 312

<210> 40343  
<211> 350  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-H12

<400> 40343

cggacgcgtg ggcggacgcg tgggcggacg cgtgggcgga cgcgtgggat ttatgctgag 60  
gaaggttcag aggctatgga tgtggctgct gccctgctg tccaggcaag ctcgttttcc 120

tgacggagac aactgcccct gctgtatggt ctgttatttt tcagctttca cagcctaaag 180  
ctacttggtc tgttattttt caggcattgg caagatacac acgaagggag gcaacttgcc 240  
tatcattgac tggcaaagat tctatgttct cggggaactt taaattcaca gctctgctgc 300  
cggcaactcc cagtcccagc cccaaaaaag cctgtgcgat gaactgccgt 350

<210> 40344

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-H2

<400> 40344

cccggcggcg cgaagcggag ggtgagaata tcggagtctg gcgatgtcga agcggcaggg 60  
agcggcgaac caccagaacc gctgcgctg gaagccgaac cttggtcaga agatcaacga 120  
aaccgagccc gggggcaggt tccgacctct gtcagaaatc accggcgtct gtcagcgtg 180  
ccgggatcaa atcgactgga aacgcagata cggaaaatac aagcccattg ttgagccagc 240  
aaaatgccag aagtgtata agcgaaacgt tcggcaagca taccataaca ttgctccaag 300  
gaccttgga tatgtgctaa gtgctgcaca tgtg 334

<210> 40345

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-H3

<400> 40345

caaccgtgtg ccttttgagg acgcgatgtc gtccggcaac aagatcagcg tggccttgct 60  
gagcgtggcc ctagtgggccc tgctcctctg ccacctcgcc accaccgct tcgtccacca 120  
gaaagacatc cacgtcctcg gcagcgtcga cggctccagc gacggcagca gccccagtc 180  
cgaaggccgc gtcgtctacg cggacatgaa gctggctgat acggaatccg atgcgccggc 240  
gccggcgccg gcgccggggc cgtcgttcgg ttgaactgaa aagcgtgcg 289

<210> 40346

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-H4

<400> 40346

caagaatttg ggtcccttgg ttaagacagt gatgactcgt tgcaccaat gtacaaggcg 60

tgtgagggtt gctactgagg ttggtggagt tcaagacctt ggtatgttaa ggcgtggcag 120

tggatgaataa attggaacat atgttgagaa acttatgaca agtgagctat ctggaaatgt 180

cattgatatc tgccctgttg gtgctcttac atccaagcca tttgcattta aagctcggaa 240

ctgggaactt aagggcacag agactattga tgttactga tgcagt 286

<210> 40347

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-H5

<400> 40347

caagaatttg ggtcccttgg ttaagacagt gatgactcgt tgcaccaat gtacaaggcg 60

ggtgagggtc gctactgagg tcgcgggagt tcaagacctt ggtatgttag gtcgtggcag 120

tcgtgaagaa attggaacat atgttgagaa acttatgaca agggagctat ctggaaatgt 180

cagtgatatc tgacctgttg gtgctcttac atgcaagcca tttgcattta aagctcggaa 240

ctgggaactt aagggcacag agactattga tgttactgct gcagagggat ccaacattac 300

aattgacagt agaggacctg aagctatgct tgtt 334

<210> 40348

<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-H7

<400> 40348

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gatgaaattc atgatgctca taaggaggca tctgctccat gttcatcagc tcctgtctca 120

catcttggtg ctcatcagca agagtgttgg cagcactctt catatggaag tcaacatcac 180

gataaccaaa atttacttga aatggaagtc agggtaaggg gtgaaatgtc ccacattcaa 240  
 caatgaatat a 251

<210> 40349  
 <211> 276  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-H9

<400> 40349

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 cctccgtcgc tcccatgggc ggccggcgtg ctccgtcccg cagtcgcagc ttcgggagca 120  
 gcagcagcaa cggccggggc gccgacggca atggcgctgg ggtgttcgtg agggcggggg 180  
 ccgacaacga gatgtacgtg cgggcggata agatcgacct caagaacctg gacgtgcaac 240  
 tggagaaggc gccgtcccaa gtgtggctgg agcacc 276

<210> 40350  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-A10

<400> 40350

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 ctctctccct ctccccagcc acccgcgtag cgagagggag ggccgaagag gatgagcgcg 120  
 tccagggtca taaagtgcgt cacggtcggg gacggcgccg tcggcaagac ctgcatgctc 180  
 atctcctaca cctccaacac cttccccacc gactatgttc cgacagtgtt tgataacttc 240  
 agtgccaacg ttgtgggtga tggttaacact gtcaacctcg gcctctggga cactgcaggt 300  
 caagaggatt acaacagact gagaccactg agctatcgtg gagctgatgt ttttcttctg 360  
 gctttctcac tgatcagtaa ggccagctat gagaatgttt cgaagaagtg gatacctgaa 420  
 ctgaagcat 429

<210> 40351  
 <211> 429  
 <212> DNA



<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-A11

<400> 40351

ccgcaagttc atgaacaaac cagtgagaat tcttgtgaag agagatgagc tgacccttga 60  
gggtatcaag cagttctatg tgaatgtgga caaggaagac tggaagctgg acacactgtg 120  
tgacctgtat gagacctgg ccattacca gagtgtcatc tttgtcaaca cccgccgcaa 180  
ggtggactgg ctactgaca agatgaggag cagggaccac accgtttctg ccaactcatgg 240  
tgacatggac cagaacacta gagacatcat catgaggag ttccggtctg gtcctctccg 300  
tgtgtcatc accactgacc tgettgtctg tggattgat gttcagcagg tgteccctgg 360  
catcaactat gatcttccca cccagccaga gaactacctg catcgtattg gtcgtagtgg 420  
tcgttttgg 429

<210> 40352

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-A12

<400> 40352

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tccgatccct gtccaccgcy ttgggagcgc cgcagcccat ggacgacaac gagagagaga 120  
aagagaatga gaatgagaag gagaagcact acgggactga cgtcgaggat gaagaagagg 180  
acgaggaagg taacaagcga gtcgtggtgc ttggccccc ggtccccctc aaggagcagc 240  
tcgagctcga caaggatgat gagagcctga ggaggtggaa ggagcaactc cttgggcagg 300  
tcgacacaga gcagctggga gaaactgcgg aaccagaggt caaggtgctg gacctgacca 360  
tcctgtcacc tggcagaccg gacctgatcc ttccgatccc gttccaggct gacgagaagg 420  
gctatgcgt 429

<210> 40353

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-A2

<400> 40353

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tgggtggtggc actagcattt ctggtaggcg gtgcctggtg tggtcctccc aaggttcccc 120  
cgggtaagaa catcacggcc aaatatggta gtgattggct agatgccaag gcgacatggt 180  
atggcaagcc gacaggtgct ggccccgacg acaatggtgg cggtgcggg tacaaggacg 240  
tgaataaggc ccctttcaac agcatgggcg cgtgtggcaa cgccccatc ttcaaggacg 300  
gtctaggttg tggatcctgc ttcgagatca agtgcgacaa gccagcagag tgctctggca 360  
agcccggtgt ggtgtacatt acggacatga actacgag 398

<210> 40354

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-A4

<400> 40354

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tatagataga actggattga tccccatgga cccatgattc tctcagacgc cactgcgcct 120  
gttcgacgac gcgaagccag aaggcctcgt ggtcggggag gctgacgcag agagggacga 180  
tgggaacggg ggtacccgcc tacaacggcg ctccggggcat aatagttggt caggcgtgat 240  
cataggggct cactagaggc gcgtgcatcg gtccgtgggg ccgaagacgg tcggtgcggc 300  
ggcgattgct cgctgggatc cgcaagaacc gccgtccgat catcctgcgt tgtcagcact 360  
ctttccatca gcgccttcgg tcacgaggat ctgaagaatc accctgggac ctggaatttc 420  
aagtccaag c 431

<210> 40355

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-A6

<400> 40355

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 acggcgaccg cattctgtcg ggcggccacgt acgtgttcgg cgcgggcgccc gtggaggtct 120  
 ccgtgaaagt ggccggcata cactggcact acggcagccg gtcccacgcc cccgagctca 180  
 ccgcggggcta ctacaacacg cggcggccacg acgggtacct taccatcgcg cgccttcttg 240  
 cgcgccacgg tgccgagctc aacttcacct gcgtggagat gcgggaccac gagcagccgc 300  
 aggaagcgcg gtgcatgccg gaagcgctgg ttccgcacgt gggcgccgca gcgcgcgc 358

<210> 40356

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-G8

<400> 40356

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 atggagagaa aattggagat gttcggcgta tatgatggc atggaggagt ccgagcagct 120  
 gagtatgtta agcagcacct tttcagcaat ttaatcaaac acccaaagtt catcactgat 180  
 accaaggctg ctatcgccga aacttacaac ctcacagatt cagaatttct gaaagctgat 240  
 agctgtcaaa ctcgagatgc tg 262

<210> 40357

<211> 241

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-E7

<400> 40357

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 agggcccggc accagcctct gaccctgata aagcggacat tgttgatgaa gccataactt 120  
 tctttcgagc caatgttttc ttcaaaaatt tccatgtgaa aagctcagca gacaagttat 180  
 tgatctatct gacgttttat atcaatattg ccttaaaaag actagacggt tgccggacac 240  
 t 241

<210> 40358

<211> 276  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-044-Q1-K1-E9  
  
 <400> 40358  
  
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 ctatcgcggc gtaccacttc gatttggcag gcacgacgtt cggcgccatg gccagaagg 120  
 gtgaggagga gaagctgcgc aaggcgggca tcacgacat gcagttccga aggggtcaagt 180  
 gcaagtacgg ctccaaagtc acctccacc ttgaaaaggg gtgtggcccc aactacctgg 240  
 cgctgctggt caagtacgtc gacggcgacg gtgaca 276

<210> 40359  
 <211> 342  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-044-Q1-K1-F1  
  
 <400> 40359  
  
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 cttggttcct agtgtctcag gaaagaatta caatccgact ctagcatgac ttccatcgga 120  
 tcactaaaaa agactactta aggtgatagt gtagaggatt aggcataatg cgtgcgttta 180  
 attgcacgga acctttcagg gaaaaaata tttagttcag aggggttgag ggcaagatgc 240  
 ctctcgggga tacatatgtc agtacgagat tacaatgtcc taacggccaa atatactcaa 300  
 cactgttaac cttttttata aggtggctaa taaaaaataa ca 342

<210> 40360  
 <211> 307  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-044-Q1-K1-F10  
  
 <400> 40360  
  
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 ttctgcatcg tgcattgtga gaaggaagag tcaaagggca tcgatgcgaa agcgtccggg 120

cctggtgggt ccttcgacat caccaagttg ggcgcctccg gcaatggcaa gacagacagc 180  
acgaaggctg tgcaggaggg atgggcatcg gcatgcggcg gcaactgggaa gcagacaatc 240  
ctcataccca aggggtgactt tcttgtcgga caactcaact ttacaggccc ctttgcaggg 300  
cgacgtg 307

<210> 40361  
<211> 387  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-F11

<400> 40361

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tccccggggg cgatcgaacg aaagctgttg tgctaccggg cggccggcat gacgatgaca 120  
cggacgatgt gcctaggcct gctgcttcta ctactggcg cggcgctcgac agcgacggcg 180  
catttcacgg tcggcgatgt ggatgagtac gtgtccaagc gcacgcagga gtccccccac 240  
aggaacaacg ggtggcgcg gcatcgatga cctcatctcc agtgcggcgc gctttcacgc 300  
caacgtggat gcacgcgcct atggccgtag atccgacctg caggaggagg caacagctac 360  
cgtattaacc aaagcggaag cacaaga 387

<210> 40362  
<211> 259  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-F12

<400> 40362

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tgagactccc cgacggcgga ctggtcttga cctgccgagg cagcggcggc tcacgctcac 120  
gtctatcacc agcagcagca agaggagcag cagaatgggg gcaagcaca aggagctgg 180  
gctcgaggac gagctggcac ggtgaccaag ctgcacatca cggcgccgca gagccctcag 240  
acggctcccc cgggcatgg 259

<210> 40363

<211> 242  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-044-Q1-K1-F2  
  
 <400> 40363  
  
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 tctcctgctc atttgtgtcca ccgatatggc acaggcaagg gaatgcgaga agtacagtga 180  
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 ct 242

<210> 40364  
 <211> 266  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-044-Q1-K1-F3  
  
 <400> 40364  
  
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 tctcctgctc atttgtccca ccgatatggc acaggcaatg gaatgctata cgtacattga 180  
 gcgattcggg ggggcatgca tgatcgcaaa taactgctcc aatgtttgcc gggtagaggg 240  
 ctttttgggc ggcaagtgtc acacct 266

<210> 40365  
 <211> 252  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-044-Q1-K1-F4  
  
 <400> 40365  
  
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 gggctcgaga ccagggatta ccgtatggtg agccaaaaat ggggactgac gtccagctat 120  
 gaaaaaacca ctgcctcccc ctatatataa tacttgcatt ggcagcctct ctgcaaaaaa 180

tatattggga tgagactccg caccgatatt ctttttctag accctactca catgggagcc 240  
atctctatatt tt 252

<210> 40366  
<211> 178  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-F5

<400> 40366

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cagctcgaga ctaggcacca ccatatgctg agccaaaaat ggagactgct gccaaagctat 120  
gaaaaaacia ctgcctcgcc caacatataa cattggcttg gccggctatt ctccaaaa 178

<210> 40367  
<211> 300  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-F6

<400> 40367

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ctccaccag tgaagctcca ctgcagcatg ctcgctgagg acgcaatcaa ggccgccgtg 120  
aaggattacg aggcaaagaa aggaagaag atggccaatg cagaggagca ggacacccca 180  
tgcccgtaa agcgacagct agtaaactga agcgagcaga gagtactgta tgtagtatgt 240  
aacggctaac gagcgaggta ctcgtgtcgt gtgtgccaaa aagaagcatg tatgtaatgt 300

<210> 40368  
<211> 240  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-F7

<400> 40368

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gtcgaggcgg caagcggcag cggtagccca cagaggagga ggccgcaagc gcggcgatcg 120

atcgaagagg aggcaacgac gtttgaagag gcggtggcgg gcgatgtgat gctttcggaa 180  
 gggatgctgc tgtttctcgt caggactgta cattacggga tgtctccttc gacgggagga 240

<210> 40369  
 <211> 274  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-F8

<400> 40369

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 cgccgaggag aagaaggtgc aggacaactt ctgctcgacg ctgtgcgagg gcaggaaggg 120  
 gatggacctg gtggtgtgca aggagtctg cgacctctca cagcgtcca acctggtgct 180  
 gtacggccgg atccagtgcaggaggcaagtg caccgagcag aaggggcatca ccgcgccgca 240  
 gatgaaagtg tgccaagagg cgtgcgacaa ggac 274

<210> 40370  
 <211> 250  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-F9

<400> 40370

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 ggagcgacgc gtgtcgacgt cgttgagggc aggtccatgg cgtccgtcga cgcgccggag 180  
 gccgtcgac catcaccgg gcctgactcc gctcgtcac cggactcctc gtcggatgcy 240  
 ccctacagca 250

<210> 40371  
 <211> 284  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-G1

<400> 40371



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agcccactcc cccgcaggag cggcggcggc ggcggcgagg tcgtaccca catcggcgag 120  
cggcggcggc accgccggag gcaaaggcaa gatgttcggg cgcgcgccga agaagagcga 180  
caacaccaag tactacgaga tcctcggggg gcccaagtcg gcgtcccagg acgatctcaa 240  
gaaagcctac cgcaaggctg ctatcaagaa ccaccccgac aagg 284

<210> 40372  
<211> 150  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-G10

<400> 40372

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tcggcggtga cgaaggcact aagcagtacc tggccggtgg cccggacacg tacgtccttg 120  
gcaggggctg ccacgtcctt gcagggcggtc 150

<210> 40373  
<211> 174  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-G2

<400> 40373

cccacgcgtg cgtggacgcg aaggtgaacg acaatgtcgt ctacatcgac ctggactacg 60  
agacggagat ggacactgct taggccaggt atagttttga gaagagctac gagctggctg 120  
acagacatgt gattaacatc ggtgcttagc gctagggctt ctctgaggta ctct 174

<210> 40374  
<211> 257  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-E6

<400> 40374

atcacgacaa gatggcgctgc acaaacaatg cgatgagagc cttgttcctc ctggctcctc 60

tctgcatcgt gcatggtgag aaggaagagt caaagggcat cgatgcgaaa gcgccggggc 120  
 ctggtgggtc cttcgacatc accaagttgg gcgcctccgg caatggcaag acagacagca 180  
 cgaaggctgt gcaggaggca tgggcatcgg cgtgcggcgg cactgggaag cagacaatcc 240  
 tcatacccaa ggtgac 257

<210> 40375  
 <211> 289  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-044-Q1-K1-G4  
 <400> 40375

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 tcagactccc cgacggcgga ctgctcttca cctgccgagg cagcggcggc tcacgctcac 120  
 gtctatcacc agcagcagca agaggagcag cagaatgggg gcaagcacia aggagctgg 180  
 gctcgaggac gagctggcac ggcgaccaag ctgcacatca cggcgccgca gagccccag 240  
 tcggctcccg cgggcatggc cggcggnac ttcgacccga ccagcccc 289

<210> 40376  
 <211> 272  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3075-044-Q1-K1-G5  
 <400> 40376

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 aaaataatga agagccgcag catggcatca tcggccgcgc tcttggtgct agccctcgcg 120  
 ctagtggcgg ccaccgcccc acaggtagcg gaggcaaaga agaagagagc ggcggagagc 180  
 ggcgaggcgg cggaggcgaa gaacatccag gacgacttct gctcgacgct gtgcgagggc 240  
 aagaagggga cggacctggt cgcgtgcaag ga 272

<210> 40377  
 <211> 232  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-G6

<400> 40377

cttgtcccag acaaggccac gaacacgctc ttcattcatcg acagcggcctt tcgcatgacc 60  
aggtgcgacc ttggcaacaa ccgtgcgacc atcgccaggt ccgggacgaa ggagttcatg 120  
gaagcccttg ctgccggcgc tgatgtgtcc atgattggcc agttcggcgt cggctttctac 180  
tgtgcctacc tcgtggccga tagagttgtg ccgaccacca agcacaacta tg 232

<210> 40378

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-G7

<400> 40378

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aaatttgggc tctaacgctt gtgggcctga tggtaaagga tggacgacaa ggaaagggtga 120  
atgccaaagg ttactacatt tatgagaagg gtgcgaagcc aaagccagac cctagtgtta 180  
agcatgtgat cgaggagtac cgaaagcagg caaacacaat gcctgggtgga aagcctgtta 240  
ctttaatgga tcaagatatt ttggagatga ttttc 275

<210> 40379

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-C2

<400> 40379

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gtgctggcgg cgatggcact agcattttctg gtaggcgggtg cctgggtgtgg tcctcccaag 120  
gttcccccg gtaagaacat cacagccaac tatggtagtg attggctaga tgccaaggca 180  
acatggtatg gcaagccaac aggtgccggc ccggacgaca atggtggcgg atgtgggtac 240  
aaagacgtga acaaggcccc ttttaac 267

<210> 40380  
 <211> 314  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-044-Q1-K1-C3  
  
 <400> 40380  
  
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 atggttggtg cgttggtgtt cttggtgagc ggcgcatggt gcggtcctcc caaagtcccc 120  
 ccaggcaaga acatcacggc cacctatggc aaggactggc tggacgctaa agcgacatgg 180  
 tatggcaagc cgacgggtgc cggccccgac gataacggag gcgggtgggg gtacaaagac 240  
 gtgaacaagc ccccttcaa tagcatgggc gcatgcggca acattcccat ctttaaagat 300  
 ggtctggggg gggg 314

<210> 40381  
 <211> 284  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-044-Q1-K1-C4  
  
 <400> 40381  
  
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 aggaattgac aaccactgg atgatacttc aaggatactt catgacacaa gtggaacctt 120  
 caaatactat atcaaggttg ttccgactga gtacaaatat ctgtcaaaga aaatattgcc 180  
 aacaaatcag tattctgtca cggagtattt tcttaccatt cgcccaactg aaagggcctg 240  
 gccagcgggt tacttctgt atgatctctc accaattaca gtca 284

<210> 40382  
 <211> 143  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-044-Q1-K1-C5  
  
 <400> 40382  
  
 gatcctcaac aacgaggagt gttcatcct gaagctggag gctggcgccg cgacgctgcg 60  
 ggcgcggagc gtcggcgct tcgacatcat ccaccacacg gtttggggct acttcagcca 120

gcgcacgggg ctgctcattc agc

143

<210> 40383

<211> 220

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-044-Q1-K1-C6

<400> 40383

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cgggcaaggc ggcagccaac cggagcggga gctgcatga agaagatctt cggcgccaag 120

aaggacaagg ggccgcccc ctccattcag gacgccaccg agcgaataaa caaacggggt 180

gagacggtgg acgagaagat caagaagctg gacgaggagc 220

<210> 40384

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-C7

<400> 40384

catgaaccct gaaaagtatg ccgaagcaga atctgagttt cgagagttga aagcagacag 60

tgaggaggct actaagaagt ttgaacacat agttagacta atgaatgaag agcttgctcg 120

tttccaggag caaaagacag ctgatattgg actcgcatc catgaatttg ccaaggggtca 180

ggctaagcta gctaaagaca ttgcggatgc atggcgcagc gtcctcccaa agctcgaagc 240

ttgttccaca tcataaatgt gatttgtgtt tcctcatgat gtttggaat gggatagggg 300

ggtggcaact tgtgagttta ggcttttttt ttccagcctg gtttgacaac tgatact 357

<210> 40385

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-C8

<400> 40385

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 accgagtgtc cagaaagggt tgcagaattt cagttggagt caggctcgtg ggctgaattc 120  
 ccatcagcag aagtttggca acggtgtgtt gattgtgagc aataatgagg gtgcacaccg 180  
 caacaacgga gcagtggaca gccctagcgc agcgcagttt cagcttcaaa ag 232

<210> 40386  
 <211> 217  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-C9

<400> 40386

cacccttcct gctccggcct ctggctcgga cacctgcgtt cgccctcgtg cggacggagc 60  
 cgacagcggc aacgacggat gccgggcttc gccggcctct caatgcagca gcagtcggag 120  
 cctgccgatc cggcggggccg ggccttaccg ccaccggcgg tgccggcgcc ggcgcccttgt 180  
 gtcgcgcgcg cgggtgcacca ccgccgggct agatctg 217

<210> 40387  
 <211> 165  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-D1

<400> 40387

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 gtgtggatac cccgcaagat gatggataac cgcgttcgag tgttcaagta ttgatatgga 120  
 taccgcaaga agttactagg agagatgctg cagccttttg ggttt 165

<210> 40388  
 <211> 354  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-D10

<400> 40388

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tccacttggg gctgcgcctc aggggaggca tgcacatctt cgtgaagacc ctgactggca 120  
agactatcac cctcgagggtg gagtcttcag acaccatcga caacgtcaag gccaagatcc 180  
aggacaagga gggcatccca ccggaccagc agcgtttgat cttcgctggc aagcagctgg 240  
aagatggccg cacccttgcg gattacaaca tccaaaagga gagcaccctt caccttgtgc 300  
ttccgtttaa ggggtggcatg cagatctttg tgaagacact tactggcaag acaa 354

<210> 40389  
<211> 247  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-D2

<400> 40389

accacgaacg ctgttgtgtc atggagtgcc gccacaata gctttgtttt gggatcctca 60  
tatctttggc acggtgctgc tgccaaggta cttcaagcac aacaacttct ccagctttgt 120  
tcggcagctc aatacttatg gcttcagaaa ggtggatcct gacagatggg aatttgctaa 180  
tgaggagttt ctgagaggtc agaggcacct cctcaaaaac attaagcgtc ggaaacctcc 240  
acactca 247

<210> 40390  
<211> 326  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-D3

<400> 40390

aatttacctg tgaagcaatc ttttcatatt ctgcatgaac aggggattcc tgtagctcct 60  
ctctgggact cattcagagg tcaatttgctc ggccttctga gccattgga tttcatactt 120  
atattgcggg agctagaaac tcatggctcg aacttgacag aagatcagct tgaaacacac 180  
actatatctg catggaaaga ggctaagcgg caaacttgctg gaagaaatga tggtcagtgg 240  
cgagcacatc agcatctagt gcatgccacc ctttatgagt cttgagggga cattgcagta 300  
aagcttttgg taaatgacat ttttac 326

<210> 40391

<211> 221  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3075-044-Q1-K1-D4  
  
 <400> 40391  
  
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 cattaggaac aaccattacc caggcatttg actatttctc tttggtttct ttccttgatg 120  
 cgtctccttc cttggagact tttatattaa atgtaagggtg ttggcactgt caattcattc 180  
 ggtcctgtaa attcatctta ccattctgtc catttagctt a 221

<210> 40392  
 <211> 215  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-044-Q1-K1-D6  
  
 <400> 40392  
  
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 cgagggccaa cggcgggtgcc gccctgaggc aggcgacagg cgggtggcggt ccaccgggat 120  
 caagcgacgg tgacgctccc ggggcatgcg ggcaagcatc atcgctcgctc ccgaatcgga 180  
 cgagttgcag cggcgcaccc cagacccagc ggcaa 215

<210> 40393  
 <211> 293  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-044-Q1-K1-D9  
  
 <400> 40393  
  
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 caagaaagaa agtaaagaaa gcgctggcaa gtgatgatga gactaaaagt gctgataaaa 120  
 gtccactata tcaagagtct gccgattgta gtttagcgac atcttctaata gatggtggta 180  
 atggaagttc tagtgtgaat atgctacata agactaagat catgacgcac ctgaaaagcg 240  
 taagaccacg ttcattggaga taggatacaa ggcctacaac aagcgtattg gac 293



<210> 40394  
<211> 247  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-E1

<400> 40394

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gctctggaac tgcgtcgtcc ccggcaagga aggcactgat tgggaagggtg gatatttccc 120  
ggtcactctc catttctactg aaaattaccc aagtaacccc ccaacctgca agttcccacg 180  
aagggttttc catgtcaatg tctatgattc tggggatgta tgctgtcaa tacttgggga 240  
tgcatgg 247

<210> 40395  
<211> 302  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-044-Q1-K1-E10

<400> 40395

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actatcctga ccaaggatgg caagaaccac ttgatcaaga aggatgtgcc ttgtgagact 120  
gatcagttga ctcatgttta cactttgatc atccgtcctg atgcaacata cagcattctc 180  
attgataatg aagagaagca aactggcagc atctacgagc actgngatat tcttccccta 240  
agaaaatcag gacccagagg ctaagaagcc tgaggactgg gatgacaagg agtacattcc 300  
tg 302

<210> 40396  
<211> 285  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-C12

<400> 40396

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 ccacgactgc ttcgcaaacg gctgcgacgc gtccatcctg atcgacccga tgtcgaacca 120  
 ggctcccgag aaggaggccg gcccacacgt ctccgtgaag ggctacgacg tgatcgagga 180  
 gatcaagacc gagctggaga agaagtgcc gaacgtggtg tcgtgcgcg acatcatctc 240  
 cgtgagcgcc cgcgactcgg tgaaactgac gggcggggcc gagta 285

<210> 40397  
 <211> 305  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-E11

<400> 40397

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 gaccagcgac caccgtaagg ccacctcatg gcacgttctt cccgctgact ggaagttagg 180  
 tgtcacgtac cagcatgca acaacttgta acatttgaga acaagtttcc aacattggcg 240  
 cccaccttta gtgaacttac ttccacttgt gatctgatgg ctatgttcaa caaccaacgt 300  
 gtagc 305

<210> 40398  
 <211> 416  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-044-Q1-K1-E12

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 gtggcatttg gagggggccc aagttcccca aatcttttca tagtgtccga aggagacaga 120  
 accagtaaac aatccttcat aggcagcttt agctgaataa accccattag cagcaatact 180  
 gaaaatatga ttatcctcca cattgggatg caacacaaat tctgaaagca gattccaaag 240  
 gtgaagataa tccattaaga cccaacaga tattactttc attaccttgg aagtataatt 300  
 agtgggtgca tggattatgc tctnttgagg ttttaagctaa actattgtta ttgataaaat 360

aagttaaacc aaaatattgt actagcatga gtcattggta ataacatttc tttttt 416

<210> 40399  
<211> 112  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-E3

<400> 40399

ctactacgta ccacggtagc gataatgggt acgtagctac atgaagctgt ctacggataa 60

tgccgtccat ttactcccct cacatgtttt aaatttttagt ttctgtttctt tc 112

<210> 40400  
<211> 226  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-E4

<400> 40400

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ccacatgctg gtccagttag gaaccaccca cagcctgcgc gctaggctcg ttctacagct 180

actgttcgtg atggtggtgg tggctccatt cttggaggaa ttgggt 226

<210> 40401  
<211> 241  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-E5

<400> 40401

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ggggaggcat gcacatcttc gtgaagacct tgaccggcaa aactatcacc ctgaggtgg 180

agtcttcaga caccatcgac aacgtcaagg ccaagatcca ggacaaggag ggcattcccc 240

c 241

<210> 40402  
<211> 314  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-A2

<400> 40402

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agcttgagca aaatataact cgcttggaga aaattgtcga aattttatca caggacaaat 180  
tctgttatga agctcacata ctacgggatg gtgcattcct tcaacgagca ttatctttct 240  
acaggttaat gatactctgg tcagttaacc tagttggcgg atttaagatg cctttgccat 300  
cacaatgtcc caag 314

<210> 40403  
<211> 315  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-A3

<400> 40403

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tcttcgaccg gaacaaggac ggcgtcatct accccgccga gacataccaa gggttccgcg 180  
cgatcggggc cggcgtcacg ttgtctgcct tcagctccgt cttcatcaac ggcttccttg 240  
gaccaagac cataccggta tatatgcatg gcattggcat ctctcccccc tcaacaggca 300  
acaccctcag cgaca 315

<210> 40404  
<211> 262  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-A4

<400> 40404

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gaagtaatgc tggtactgct gaaggaatga gaggctttgc aaatttagtt aacttactaa 120  
atctcgacct tgaagggtgc ctaaagattc atggtggcct tattcattta aaagatctga 180  
caaagctcga gtcattgaat atgagatatt gcaattatat tgcggattca gatatcaaatt 240  
atttaacaga tctgacaaat tt 262

<210> 40405  
<211> 250  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-A5

<400> 40405

ggccgtcgag cgagcagtct cccaattcca cccaataact aataacatct cctcgaacgc 60  
cagggttcctt ggaccactat atccaggagc gacgaagtga tccaccgcgc agccatggag 120  
atgaagaagg tcctctgcgc cgccctcgtc gccgccgcct cggccaccgc cgtgctggcc 180  
tcggtcgcct ccgaggcgcc ctccgaggcg cccgccggcg cggccgggtgg tgcggctggc 240  
cctagcgcaa 250

<210> 40406  
<211> 245  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-044-Q1-K1-A6

<400> 40406

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cgccgccgcc gtngnegncc caccgctac cggcgacgct gccgccttca acgtgacgga 120  
gatcctcagc cggatcccggt agttcaagct cttcaacctc ctccctcagca agaccgcggt 180  
cgcgcgcgag gtgaaccgcc ggagcgccgt caccgtgctg gtcccggaaca actcggccgt 240  
ggact 245

<210> 40407

<211> 351  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-044-Q1-K1-A7  
  
 <400> 40407  
  
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 gcccagacc aacgacgaga aaggacaatc tgcggcggac ctacccgaag tcggaggcag 120  
 ggcaaaaggc ccgatcccc ctccccgccg gttgccgcgc tcgtgccacg gtgcgctagc 180  
 cccgtcgacg ccggcggaca gcgtgcacta tgggttgctc ctctccgtg ccagctagaa 240  
 atactggagg gctgaacact atcagcaacg atagctctcc agacgccagt tcaaaggact 300  
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<210> 40408  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3075-044-Q1-K1-B10  
  
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 ctaattgatg cagccggcgc ttctggtgtc aatattatgt gcttacaaga agcctggaca 180  
 atgccttttg ccttctgcac acgcgagaaa agatggtgtg aatttgctga accagctgat 240  
 ggagaatcta c 251

<210> 40409  
 <211> 221  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-044-Q1-K1-B12  
  
 <400> 40409  
  
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 aagataaagg taatggagtc gtcacgcagg ttccagccgg ccgtcatcct gcttctcctg 120

ctcattgtgt ccaccgatat ggcacaggca agggaatgcg agaagtacag tgagcgattt 180  
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<223> Clone ID: LIB3075-044-Q1-K1-B2

<400> 40410

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tgacctcaac aacgtcaaga gtgagctcaa gaggatatct gcgcccaatg ccaggcaggg 180  
taccggggag gagctcctgg agtctggaat ggctgatact ctgcgggtgt ctactgatca 240  
gaggggaaga ttgatgatga caactg 266

<210> 40411  
<211> 247  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-B3

<400> 40411

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gcctttcaag gtcaattggg gatactgatg tcggcgagtt catcgtaccg attccacatg 180  
tcaagcaagt gaagctccca aatactggtg gaagactaat aattgcatca gatggaatat 240  
gggacgc 247

<210> 40412  
<211> 214  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-B4

<400> 40412

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ggcatgggcg cctgcgcaac caagcccaag acgcttgagg ggcaggcccc acctgaggcc 120  
gccgtctaca cacccaaggg tgcgcccag gtcactccaa tctccgatga ggttgcggtc 180  
gatgaacagg tagctgagaa cgtggtggtg gagg 214

<210> 40413  
<211> 291  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-044-Q1-K1-B5

<400> 40413

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agaactgaag agaaggatgg gcttcgagaa gcacatcctg agatccggca ccggccccc 120  
gccgataaag ggccagaagg tcaccgttca ctgcaccggc tacgggaagg atcgtgatct 180  
gtccaagaaa ttttgagca ccaaggaccc tgggcagcag ccattcagtt tcagcattgg 240  
tcagggttca gtgatcaaaa gatgggacga gggagttatg accatgcaag t 291

<210> 40414  
<211> 223  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-B6

<400> 40414

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cctcaccgga tgaacatgag tagattcaat atcataccat ttgtttgtgt agggaatcga 120  
aggctgtcgc gtaagacagt tcggctaggc cggatgacct gacggcttga cgaagagttg 180  
gtgcagatcc gatcccgtag caacatcgag aaagagcgtg ctg 223

<210> 40415  
<211> 462  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-A12



<400> 40415  
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cgccattcga gcgaacgagc caaccgatcc cgttctcaag gcaatccgcc gccgacgtac 120  
caccaccacc gcatgatcga gatggaaatg aagaggatcc tttttgccga tcttgttggtt 180  
atcatcgctt ttttcacctc aatgcttgcc ttcattctaa cctcccttac tgggtccccc 240  
actttttttt tatttgaatg atttgcttta ttttggtttt gcttttaatt ttatcttttt 300  
ttctttctct tttgttcctt ttcttttatt agtggttaa atttttttatt atttttttat 360  
agcatctata tttttttttt attctatttt taaaattatg gtctatcttt tatattatat 420  
cttctttata atatttatat ttttttagtt ttttcttttt ta 462

<210> 40416  
<211> 238  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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cgtgctcctc ctagccgccg tgcctatggc gccgttcgcg ggcgcggcgc gcatcgacgt 120  
cgtcgagggc aggtccatgg cgtccgcgga cgcaccggag gccgncgncg acgctcccg 180  
tcctgctcct ggcgccgact cctcctcgac cccgtcgccg gcaccctcca gcagcagc 238

<210> 40417  
<211> 242  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3075-044-Q1-K1-B8

<400> 40417  
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ccggcgccctg gcggttcgcg tgggccccgt gccgcggcg cagcgctgc tgatggccgg 180

cgcgctcgctcc gccatcttcg cggggacgct gctgtcggcg gtggcggaga tacgggacac 240  
gc 242

<210> 40418  
<211> 247  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-B9

<400> 40418

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tcgtggggcg cgctccttcg gcgcttgctg tcggcggggtc gtgcggggccc ccgaagggtgc 120  
cgccccggccc caacatcacc accaactaca acggcaagtg gctcaccgtc agggccacct 180  
ggtagcgtca gccaacgggt gccggcgctc ctgacaacgg cggtgcgtgc gggatcaaga 240  
acgtgaa 247

<210> 40419  
<211> 223  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-044-Q1-K1-C1

<400> 40419

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gccttggtgc cagcaccaga tgtttctgtg tgtgtgtggt ggtggtttct gtacatgaaa 120  
gccttttgac tggagaacca accatggcta gtttaattat gaagttcact tgttgtagcc 180  
atggnangat aaactagcta aagacattgc agatgcatgg cgc 223

<210> 40420  
<211> 250  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-C10

<400> 40420

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atccgctttg ctgtcaagtc tggcggctac cgcacgcgcg acgacgtcat ccccgccgat 120  
 ttcaaggctg gcaccaccta taagaccaca ctcagcatct aatcaacctc tcatgatgaa 180  
 atatatttca aaagagctca cctagcgcac tgtgtacaag acaatattat ttttttcatg 240  
 ggcttttttt 250

<210> 40421  
 <211> 221  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-C11

<400> 40421

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 gtgctcatag atggtattgc caccgtagga agttgcaaga tgcagcaagg atcatggatg 180  
 agatggaaac cgctgggggtg cagccaaatg aggattcata c 221

<210> 40422  
 <211> 304  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-G6

<400> 40422

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 tcgtttaagc tgccgatgtg cctgcgtcgt ctggtgccct ctccatatgg aggttgtcaa 180  
 agtatctgct gttcgtgtca tgagtcgtgt aactattgct ttaataatgg accggttgtg 240  
 ttgtgtgtgc gtactacca gaactatgac aaatcatgaa ttagttctct ctttgaaatc 300  
 gaaa 304

<210> 40423  
 <211> 251  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-G9

<400> 40423

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ctcgcgccct tcaccgaccc catacccgcg ggcatgatcc gctgcgatgg aggactcggt 180  
gccatcgctc gtcgcacctg accctaccac ttcccctgca ccttgcacgc ccccgctccc 240  
gaacccgcac c 251

<210> 40424

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-H1

<400> 40424

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ggccagtgc cacactctac tagccgcccga gaaggagttc ttccgggatt cgagccttgc 120  
tgccctcacc tctgcaggcc cagcgtcgag cggagatcca atcggaatt caactgactt 180  
cgtcttttgt cgcacccccg tcaggagaag caatgtcagg agtgatcaca aagttcgcg 240  
ttacatccat ggtgatgtgg atggcccctg atgcgatcat gtatgggttt tactaccagg 300  
tgtttccagg tgtgagtcag atgtcatcct ccgcgcatac acttgccagt gggttcctgg 360  
cttgcataac gggtaatcta gggat 385

<210> 40425

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-H10

<400> 40425

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ccgcgcgacc accaccacgt tccaccggct cgacgccgtc gcagtgcgag aggaagagtc 180



ccatacagtg gatctacgac agagccagcg cagcgctatc agttgctaaa ggcaactgcc 360  
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<210> 40428  
 <211> 335  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-H4

<400> 40428

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 ccggacatgg cctcatagat ggcgctgaac aagattaggg accaaaagga gctagtcatt 180  
 acaagggtaca ctacgtgtat ccggatgtag gcaggggtat aattcatgca tacgcacctt 240  
 actctgttac cgctagaact gtcgcccgtt aaggacctca ggccaccttc agccgccacg 300  
 atgccgctgc cgcattctgt gctgcaccta agaag 335

<210> 40429  
 <211> 137  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-H5

<400> 40429

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 ttaggcaggc taccgcg 137

<210> 40430  
 <211> 437  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-H6

<400> 40430

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gccggcgaga agatctttaa gaccaagtgc gcgcagtgcc acacggtcga caagggcgcc 180  
ggccacaagc aaggtccaaa cttgaacggc ctttttggga gacagtcggg taccactgca 240  
ggctactcct actctgcggg aaacaaaaac aaggctgtag tctgggaaga agacactttg 300  
tatgagtacc tgcttaaccc taaaaagtac attcctggaa ccaagatggc cttccctggg 360  
ctgaagaagc cgcaggagcg tgctgatctc attgcgtacc ctaatgaagc aactgcatag 420  
ctcattgaca tgccttt 437

<210> 40431  
<211> 434  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-043-Q1-K1-H8

<400> 40431

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tcaccgaagg caggcagtcg tgccaaggca ccggccgagt caccgaaggc aggcagtcct 180  
gcagctcctg ccaaggcacc cgagtctgct gccacgagaa ctgcccccg taaggcacct 240  
caagccgcct ccacccccgc cgctgccgct gcccacatcg cgtcgtcgtc taggaagtct 300  
ggtccagctg ccgcgccgac caccgncgtc tctacaccgt cttcttccac ggacgaggag 360  
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gctgagggac ccgc 434

<210> 40432  
<211> 408  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-H9

<400> 40432

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gcccggccaat ggccgtaccg tgctgatctt ccgtgtgccg tgcgggtgcc cataagagag 180  
 gatggaggtc tggggcgcta agaaaagggtg cgccggatga agacgtatgg aggccatgaa 240  
 aaacaaacag ctgatggctc cttatctatt atctaatacag agacatccta aacaactcat 300  
 agctgagtta ctttcgcata gcggttactag gagatgacta ctaactacta gggcggtggc 360  
 tgtttgagga aattgctctc attcatatag ccctattgga ctagtgga 408

<210> 40433  
 <211> 294  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-A10

<400> 40433

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 acgaccttcg ccgtcatctt atccgtcttc ttctgtgccg cggctggcac cgccgtcgac 180  
 aacgacctcc ccgactacgt catccagggc cgcgtctact gcgacacctg ccgcgccggg 240  
 ttctgtacca atgtcaccca gtacattgcg ggcgccaagg tgaagctgga gtgc 294

<210> 40434  
 <211> 299  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3075-044-Q1-K1-A11

<400> 40434

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 ccacggcggc gaccgtgaaa gcggaagtgg agggtttggg ctgcngcgat ggttctcttc 180  
 acaagcatgt caagccaatt gccgagccgn cgncgcagcc gtcaccttcc gaggacttgc 240  
 cctttgatgt gcttgatgga cctagcccat tgggtctgcg actaagaaaa aagtcgatc 299

<210> 40435



<211> 424  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-043-Q1-K1-G5  
  
 <400> 40435  
  
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 tgctgtatac acactttaaa ggagcgtgag ggcacatgct tatgtcgata gctacctatc 180  
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 cccgcttaca cggaatcata atgacccaaa ggggctcagg tctatgtcaa gaagacttca 300  
 ttcatgtggg caccagcagt cactcactgc caggggcgga cgaccagaga cattaagagg 360  
 cgatcgtccg ctgcaatgca tgcattcgga tatatgcatg cgtaaacaca tcgagacgcc 420  
 gtaa 424

<210> 40436  
 <211> 428  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-043-Q1-K1-E8  
  
 <400> 40436  
  
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 gctggcaagg aggatccgcg gcgagagggc ctaatcgcca cctcaaacat cgtgacaaaa 180  
 acatgaagtc ctgggggttat tgtaactctg gtgccattgt aaggacatat gagtaggggt 240  
 tgttttgtgg atcgcaagtt tctcttctgc tactgttgct gctacctttg ctggtgttat 300  
 tgctagggtc gaataactta gttaactatg cgctgacagt ctggactagc agtgttatgt 360  
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 gtgtttcc 428

<210> 40437  
 <211> 417  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-E9

<400> 40437

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ctaaagaaag tctacaactt tgagaaaaat ctggtcgatt atgttatctt gattgagctt 180

tctttttttt ttcttctaga tggatatctga gcgccaaaga atcgaaggag cacctccggt 240

ggttgagagt tccatgcctc cgccgcctgt atatgaagaa gtcaatggta tattcatgag 300

aaatacaggt gcaaaattgg tcgagactgt ggagtatttc ttggctgaag caatccagtc 360

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<210> 40438

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-F2

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gctgcggtgg cggcggccat gagcagcgtg agcgagagca ctaccgtcag caggtgggtcc 120

gagctggcca cgctgcgcgc gctggcgcgc gacgccgtgg agcaacttct gctgtcgtgg 180

tccggcacag ttgcgtgggc gtcgtcgctc gaggcgcggg ccctatgacc acctgcacgg 240

tcacggtacg acagtcaagg tgatgcacct gctgctttga ggaccaagt gaa 293

<210> 40439

<211> 224

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-F3

<400> 40439

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acttcagctt caatgataac actttccgct ttgggcatcg ctacactgct gatccggtgg 120

actcaactta cgcaacatat ggacgtttta cgtttttctc cttggctgac gacccccatg 180  
atgcttttctt tccatacatg ttagaatatg cttagaaacg tatt 224

<210> 40440  
<211> 417  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-F4

<400> 40440

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gggccacgac ggcgcggttt gggcccagag caccgcattc ccacagttca agacagagga 180  
gatgaccaac atcatgaagg acttcgacga gcccggttcc cttgccccga ccggcctctt 240  
cctcggtccc accaagtaca tggatcatcca aggcgagccc ggcgctgtca tccgcgggaa 300  
gaagggatct ggaggcataa ctgtgaagaa gacagggcaa gcgatgggtg tcggcatcta 360  
cgacgagccc atgacccccg gccagtgcaa catggtggtc gagaggctcg gcgacta 417

<210> 40441  
<211> 424  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-F5

<400> 40441

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ttttcccctt ggctgaggag cccgatgatg ctaaagatgc aaccttgtca gaatgtgctc 180  
agaaaggcat tgcagtgaga ccacggaaag gtgacgcctt ctttttcttc aaccttaacc 240  
cagacggcac caccgactcg gtgagcctcc atggtgggtg cccggtcatt aaaaggcaga 300  
aatggtcggc ttccaaatgg atccctgttg ccttggtcga taaggtccat taccacaggg 360  
gcaactgcac cgactagaac gagagcttct cgaaatgggc tgccctaggg gactgcataa 420  
agac 424

<210> 40442  
 <211> 370  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-043-Q1-K1-F6  
  
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 cgtcgatgag cacctgatgt gcgagatcga tggccatcac ctgacctgcg ctgccatagt 120  
 cggccacgac ggctccgttt gggcccatag caccgcattc ccacagttca cgacagagga 180  
 gatgaccaac atcatgaagg acttcgacga gcccggggttc cttgccccga cgggcctctt 240  
 cctcggaccc accaagtaca tggtcattca aggcgagccc ggcgctgtca tccgcgggaa 300  
 gaagggatct ggaggcataa ctgtgaagaa gacagggcaa gcgatgggtg tcggcatcta 360  
 cgacgagccc 370

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 <211> 344  
 <212> DNA  
 <213> Zea mays  
  
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 <400> 40443  
  
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 cgctcgccgg tatggcgatc cgcaaggggt cttcgtacgc cgtcgcgga cttatcgcg 120  
 tcgcctctgt cgccgccgtc gcaggggagg tcttcttcca ggagaagttc gaagatggct 180  
 gggaaagtgc gtgggtcaag tccgagtga agaaggatga gaacatggct ggtgaatgga 240  
 accacacttc gggaaaatgg aatggagatg ccgaggacaa aggtattcaa acctccgagg 300  
 attacaggtt ctatgccatt tcaggcgaat accctgagtt cagc 344

<210> 40444  
 <211> 356  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-043-Q1-K1-F8

<400> 40444

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tctccaatcc aaaaaatgta atttgttttc attaaagttt gttaaattgt tcttctaatt 120

tataaggaat tataggatgt aatggcataa tgccattcta tacgggtccat caagaaatga 180

atttatgatt tcaaattatt tcatcaaata gaattattat tttttgtaca aattgttagt 240

ggaagtatca ccttgctgac aatgtatgtc acaagtgatg ataatttgta atcattgaaa 300

tttctaattgg attgaaaata aataatgtct tgcagagtac ttggacaagt agtttt 356

<210> 40445

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-G10

<400> 40445

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ttgagcacat cgtggagagg atatcctgca tctctgacgc tgctcgtact gatcgtccat 120

gacagatcac agattactcg tatatcgagg acgctcttgc tgctaaagca acacacacac 180

ttaagcacct tgggctcact catatatcgt gcttgtgtgc tagtgaaata ggacacgtcg 240

aaatcgaga atcctgtcct ttttgcgcat atcgaattca tccatatact atgaggacga 300

tgcagacatt ggtgatcctt ctcaagaagg tgctgatttc ctgaggtatg ctcatgactt 360

gccttggtgta 369

<210> 40446

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-G2

<400> 40446

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cgaacatcca aaaggagagc accctccacc ttgagctccg tctgagaggt ggtcagtaag 120

tcatgggtcg tttaatctga cgatgtgcct gcatgccatg gtgtactgtc catatggagg 180

ttgtcaaagt atctgctggt cgtgtcatga gtcgtgtcag tggtgggttta ataatggacc 240  
 ggttgtgttg tgtgtgcgta ctaccagaa ctatgacaaa tcatgaataa gtttgctggt 300  
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<210> 40447  
 <211> 381  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-G3

<400> 40447

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 cgacagcgcc atctaggagc tggttggcgg catctagagg ctgatagaga tcaagcggag 180  
 acgaatggag aagctgtaag acctgcttgt cagcatgctg gagctgtaga acctgatgga 240  
 cagccttct gatgacaaaa ggggatccag ggcattggcct gcaacatcga cgcgttcgag 300  
 gacgagatca cggatcctgg cgcgctgtcc atggccttca tacgcaacag ggatgaggac 360  
 gtgatgaggc tggataacct t 381

<210> 40448  
 <211> 420  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-D12

<400> 40448

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 gtgcaacctc cggcagccct ggcagtgatg gcaaggagta aagcttgctg atttggatg 180  
 gcctagaaaa cagccttctc acggagtcac gggattgcag aaccttgaga aggttgattg 240  
 agcacaatgg aagtagcagt ctgcactcaa ccgcgatcca aggttgctag ttcttttaat 300  
 ggcttataga attgtgtttt ccagttgtca aaaatatgcg ctggtttgta tttttggcat 360  
 atactgtgtt tttataacct tgcactgcat catctacttt atatatgcat cagtttctcg 420

<210> 40449  
<211> 409  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-043-Q1-K1-D3

<400> 40449

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tagagaacaa caccaatcgg caggtgacct tctccaagcg tcggaatggc ctcacatcaaga 120  
aggcctatga gctctccggt ctatgcgaca tcgacatcgc gctcatcatg ttctcgccct 180  
ccaatcgcct cagccacttc tccggcaggg gcaggatcga ggacgtgatc acgaggtaca 240  
tcaatctccc ggagcacgac agaggaggag ttgttcggaa tagagagtat ctgatgaaga 300  
tgctnggtaa actcatatgt gacggtaaca tagccgtaca actcacacct aattaagagc 360  
caatctatct caacgtaaag gagcttcagc aggagattaa gacgtacca 409

<210> 40450  
<211> 429  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-043-Q1-K1-D4

<400> 40450

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agaacaggca agtcaaggcc aagcaagtta cattccaccg gaagaagaac ttgcagtact 120  
atgagatttc tgccaagagc aattacaact ttgagaagcc cttcctttac ctcgctagga 180  
agctggcagg gtaattagat gttttgttct tttctgctgt gctaacctgg tactggtggt 240  
tatacactgc agcaaaactat tgctgtgcta acttgctact ggtgtttatg tttagggatc 300  
agaaccttca ctttgttgaa gctgntgctc tgaagccacc agaagtgcag attgatatgg 360  
ccctgcagca gcagtaagtg ttttcagctc ttcctttgat ttctggcaca gcaaaaatta 420  
gccgtgcaa 429

<210> 40451

<211> 434  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-D5

<400> 40451

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gctttttatat tgaagcaaga aaaatataag gacgcggaac ctagtgcaat agatcttttc 120  
aaggagatgc attgtagcaa aaagaaaggt tttagtgaaa atgttcagaa agctattgtt 180  
gacatggaag aaatggtagc agcaccagtt caggatggac aacaacaaaa atctcctaca 240  
gaagttgttt ctaatgtgct accaggctcc agtgtgttcc tacgcaatgt tgggtcttaag 300  
tctgcatccc agaaaagctc cacaacgact gtttctgcaa aggttcaaca acttcaggat 360  
gaactcgaga ccgagaagca agaaaaagat ggccttcggg aagaagtgga aaccttgaag 420  
gctcaagcac aagc 434

<210> 40452  
<211> 349  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-D6

<400> 40452

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ccatgcacat cgacggctac gccttcttcg ccgtcggcat ggggcccggc aaatggacgg 120  
cagcgtcacg gagtacgtac aacctcctgg acacggtgag ccggcacacg atccaggtgt 180  
acccaaggtc gtggacggcg gagatgatga cgttcgacag acgcggtcac gtggagctgg 240  
cgctccaaca tctgggagag gcagtacctc ggcgagcagc tgaacgtgag catgattagg 300  
gcggagcggg cgctcatgga cgagtacaac atgcctgaaa ccagcctac 349

<210> 40453  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-D7



<400> 40453

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ggtgcaggag tgggtaaaac tgtgctcatt atggagctga tcaacaatgt tgctaaggcc 180

catggtggtt tctctgtgtt tgctggtgtt ggagaacgta cccgtgaagg gaatgacctg 240

tacagagaaa tgattgaaag tgggtgtcatt aagctaggct acaagcagag tgaaagcaag 300

tgtgctcttg tctacgggca gatgaatgag cccccgggtg ctctgtgctc tgttgggttg 360

actggtttga ctgttctga acatttccgt gatgctgaag gacaagatgt gcttctgttt 420

attgacaaca 430

<210> 40454

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-E1

<400> 40454

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caatgctgca agctcttgct tccatgcaag ctctgatttt gaatgacaag ccatattaca 120

acgagccagg atatgagtc tctgccaaca ctctaattgg agagcggctg gctttggact 180

atactgacaa cacctttctg cactcatgca agactatgtc atactcactt cggaggcctc 240

cagagcactt tgcagatctt gacgctggcc actttcgggt gcatgagcac acgattatcg 300

cggcatgcac acactacat 319

<210> 40455

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-E10

<400> 40455

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cataacattt cttctgttga ttgatgctcc catccatcag tatcttgact gagtatttct 120

aacaaggaaa agaaaaaaaa gaggtatacc aatttgctat cgggtgtagtt gcaatgactg 180  
aaattgtttt tgcttacaag aaaaagaaaa aaaacggtat aaccagaaga cgatcatggt 240  
ttccctatca aggtgtcagc cgacaactaa caattgcggt atgtttcctt ttggaataat 300  
caagtgtctt gctccggagt ttggacaaca gtacatacat tctcccagca ggctgcttga 360  
tgctgcatct tcttgaaca tcagaagtta ttgatttcat ttgccctcaa aatatcagat 420  
gtat 424

<210> 40456  
<211> 368  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-E12

<400> 40456

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ggagggggcga tggcggcggc tgatgtggag taccgttgct tcgtcggcgg gcttgccctgg 120  
gccaccagca acgagtcgct ggagaatgcc ttgcctcctt acggcgagat cctcgactcc 180  
aaggtcatca ccgaccggga gacggggagg tctcgcggct tcggcttcgt taccttctcc 240  
tccgagaact ccatgctcga cgctatcgag aacatgaacg gcaaggagct cgacggccgt 300  
aacatcaccg ttaaccaggc ccagtcccgt ggcgggtggc gtggcggccg tggctaccgc 360  
ggccgtcg 368

<210> 40457  
<211> 311  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3075-043-Q1-K1-E2

<400> 40457

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atttaacagc aaaacaaggc caaaataacc ctacttcaaa aacgttgag ttcacgactt 120  
ctgctccaaa tcgaaatccg taaaagagca ctgctcatct tgtaccagtg aaaaaaaaaag 180  
aaacttcaga ttgatacact agttatttga cggatgcttn tacagctttc tctgccgcgt 240

catcaagatc ttctgcagtg atcaaaggca ttccactttc cttaagaatc ctcttttcctt 300  
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<210> 40458  
 <211> 287  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-E3

<400> 40458

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 ctcttgaaag tccgtgtggt gaggggcatc aaccttgcct accgcgacgc aagaggcagc 180  
 gatccgtatg tcgacctacg acttggcatg aagtaactta agacgagcgt gaagaagaga 240  
 tctgtgaacc ctatctggca cgaggagcta actctgaccg taacaga 287

<210> 40459  
 <211> 433  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-E4

<400> 40459

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 caaggcgcag gccagggcg agtgccaggc ggagcgcgca gcgcagtgcg ttagggacgg 180  
 cgccggcgcc accgcctgcg ccgtgaccga caccgtcgga gccgcggccg acagcgcgca 240  
 gctgcaggag caccgcgcg tcggcaccgt tcagcaggct gctgagcagg tggcgcagac 300  
 ggcggcgggc gcggcggcag ccgtcaagga caccgtggcg ggcgcggcgg cggccgtcaa 360  
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 gactcacgcg cgt 433

<210> 40460  
 <211> 429

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-043-Q1-K1-E5  
  
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 ggccatggcc atggccgccc cgteccgata ccgggcgctg tgggcgtccc ggcgcgccgc 180  
 ctacctcagg atctccacct tccccagggc cttctccacc gtgctgaagg atctgaaata 240  
 tgetgacact catgaatggg tgaaggttga gggcgattca gcaaccgtgg ggattactga 300  
 ccatgccag gatcatctgg gtgatgttgt ctacgtggag ctgccagaag ttggcgtcag 360  
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 ttcaccagt 429

<210> 40461  
 <211> 417  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-043-Q1-K1-D11  
  
 <400> 40461  
  
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 agcacctgat gtgcgagatc gagggccacc acctcacgtc ggcggccatc gtctgccacg 180  
 acggcgccac ctgggctcag agcaccgctg tccccgagtt caagcccagag gagatggctg 240  
 ccatcatgaa ggatttcgac gagccggggc acctcgcccc gaccggcctg atcctgggag 300  
 gcaccaagta catggtcatc caaggcgaac ctggagctgt catccgtggc aagaagggat 360  
 ccggtggcat cactgtgaag aaaacagggc agtcactcat cattggcatt tacgacg 417

<210> 40462  
 <211> 392  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3075-043-Q1-K1-B8

<400> 40462

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catcaagaat gctttctccc cactgctgg gtgaggatca ttacaatact gctcgtgggtg 180

ttcagaaggt tcttcagaac tacaaaaatc ttcaggatat tattgctatc ttgggtatgg 240

atgagctcag tgaggatgac aagttgacgg tcgctcgtgc aagaaagatt cagcgtttcc 300

tgagccagcc tttccatgtc gctgaagttt tcacagggtgc tccaggaag tatgtggagc 360

tgaaagaaca tgtgaacagt ttcaagggtg tt 392

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-B9

<400> 40463

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tatagctccc aaaattccat ggggcacaca cacatgagat tgcgactgat cgtcagacgc 120

atgccaaagg tcagaggatc aggatgagtg cggcataatt gacgcattgg aggcagcaat 180

aacacgtgtt agaatatccg ctccaaagag aaatcggtt tgtagtcccg aaattaccat 240

tcagcatgaa tgctcgtcaa acttgaagaa taatctctgc tcggctttct gacctgacct 300

agcttatagc acctgatcgg agtggcgtat attcttctcg ctgagaaggt cgatgtgatt 360

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<210> 40464

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-C1

<400> 40464

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gcagccttgt gaggggactg acgtggtccc aagcaattca aggtcgcaca cttgtctgct 120